

# Author Index

Abbott FS, 299A  
Abercrombie DM, 38  
Abramsky O, 92A, 271  
Ackerman JJH, 291A  
Acosta PC, 28  
Agranoff BW, 214  
Ahmann PA, 284A, 291A  
Alauddin M, 511  
Albert DM, 99A  
Alexander G, 77A, 103A  
Alexander MP, 102A  
Allan WC, 293A  
Allen JC, 293A  
Allen RJ, 207A  
Alter M, 204  
Amico L, 77A  
Amit R, 266  
Anderson DW, 72A, 293A  
Anderson GM, 306A  
Andrews A, 301A  
Ang L, 78A  
Angel RW, 202  
Antel J, 77A, 92A  
Appel SH, 491, 499  
Appenzeller O, 290A  
Ariagno RL, 296A  
Armstrong DL, 305A  
Arnason BGW, 77A, 92A, 98A  
Aron AM, 304A  
Aronson M, 506  
Ashwal S, 296A  
Askasas V, 238  
Auerbach SH, 101A

Baab P, 196  
Bakshi S, 286A  
Balagura S, 495  
Baloh RW, 101A  
Barchi RL, 251  
Barden MT, 83A  
Baringer JR, 74A  
Barna BP, 96A  
Barnes PD, 295A  
Barnett P, 99A  
Barranger JA, 64  
Barron KD, 103A  
Bason WM, 294A  
Bassett M, 80A  
Bates SR, 285A  
Baum HM, 420  
Baumann RJ, 85A  
Bayne LL, 80A, 566  
Beard DC, 286A, 295A  
Behan PO, 74A  
Behrens M, 540  
Beinfeld M, 73A

Bell RD, 103A  
Benowitz N, 88A  
Benson DF, 76A, 100A  
Berg BO, 268  
Berga SL, 106A  
Berger JR, 89A  
Berger P, 286A  
Berginer VM, 238  
Berry RG, 540  
Bertorini TE, 91A  
Bever CT, 96A  
Bhan A, 283A  
Bharucha NE, 105A  
Bienfang DC, 99A  
Bigelow R, 95A  
Bigner D, 99A  
Bilaniuk LP, 285A  
Billar J, 105A  
Bischoff ER, 304A  
Blanc WA, 303A  
Blasberg R, 99A  
Blomqvist CG, 84A  
Blosser JC, 107  
Blumenkopf B, 77A, 82A, 86A  
Bodensteiner JB, 295A  
Bodis-Wollner I, 532  
Bonnefoy M, 392  
Borel Y, 283A  
Borison RL, 78A, 93A  
Bosch EP, 486  
Bower B, 298A  
Bradley WG, 486  
Brady TJ, 75A  
Braham J, 277  
Braun A, 94A  
Brecher M, 286A  
Brenner T, 92A  
Breslin D, 105A  
Bresnan MJ, 283A  
Breuer AC, 82A, 103A  
Brocco K, 582  
Bronstein JM, 88A  
Brooke MH, 88A, 89A  
Brooks B, 96A  
Brooks BR, 93A, 580  
Brooks RA, 73A  
Brown BA, 429  
Brown DR, 305A  
Brown FR III, 284A  
Brown LE, 214  
Brown LW, 300A  
Brown MJ, 106A  
Brown SB, 305A  
Brown WF, 86A, 227, 557  
Brown WJ, 298A  
Bruce DA, 285A  
Bruni J, 89A, 299A  
Buell SJ, 75A  
Buge A, 127  
Buonanno FS, 75A  
Burke AM, 96A

Burke D, 547, 551  
Burt CT, 75A  
Butler C, 38  
Butler I, 303A  
Butt K, 294A  
Camisa J, 532  
Campbell WW Jr, 397  
Cant BR, 411  
Cantell K, 82A  
Caplan LR, 105A  
Caronna JJ, 79A  
Carpenter S, 63  
Carvey PM, 94A  
Caserta V, 298A  
Castaigne P, 127  
Castro-Caldas A, 402  
Catalanotto F, 97A  
Ceballos R, 355  
Celestia GG, 103A, 105A  
Cerri CG, 90A  
Chacon M, 196  
Chad D, 486  
Challamel MJ, 296A  
Chan PH, 75A  
Chandarana H, 95A  
Chandler W, 99A  
Chang S, 78A  
Chaves-Carballo E, 294A  
Chen K-M, 341  
Chen WW, 284A  
Chokroverty S, 95A  
Christians BL, 101A  
Christoferson LA, 390  
Chu AB, 96A  
Chutorian AM, 284A  
Clark AW, 122  
Clifford DB, 88A  
Cohen DJ, 306A  
Cohen J, 304A  
Cohen ME, 261, 286A  
Colan RV, 355  
Collaborative Investigation of Duchenne Dystrophy Group, The, 89A  
Comary JE, 78A  
Come PC, 105A  
Connor J, 83A  
Conomy JP, 82A, 96A  
Cook JD, 84A  
Corbett JJ, 540  
Cork LC, 494  
Costello GT, 99A  
Costello ML, 478  
Coulter DL, 307A  
Coyle JT, 122, 303A, 307A  
Cravioto H, 73A  
Cros D, 392  
Cruse RP, 302A  
Crystal H, 580  
Culton GL, 396  
Cummings JL, 76A  
Curless RR, 304A

Dalakas MC, 45, 90A  
Daniel PF, 299  
Daniels SR, 285A  
Danon MJ, 84A  
Darwish H, 301A  
Davidoff RA, 108  
Davis JM, 78A  
Davis LE, 38  
Deanching M, 292A  
Deck MDF, 102A  
De la Paz R, 73A  
Delashaw JB Jr, 369  
DeLong GR, 300A  
DeLong MR, 122  
Dement WC, 369  
Denny J, 292A  
Deodhar SD, 96A  
Desai AD, 583  
DeTeresa R, 184  
Deuel RK, 291A  
De Villier C, 81A  
DeVivo DC, 86A, 90A, 351  
Dhawan V, 102A  
Diamond BI, 95A  
Diaz J, 465  
Di Chiro G, 73A  
DiMauro S, 90A, 90A, 302A  
Dix RD, 74A  
Dodds WJ, 454  
Dodson WE, 88A  
Doe RP, 388  
Dohrmann GJ, 80A  
Domingue JN, 87A  
Donaldson JO, 97A  
Donn SM, 295A  
Doolittle J, 94A  
Dore-Duffy P, 97A  
Drachman DA, 72A, 95A  
Drennan JC, 296A  
D'Souza BJ, 286A  
Duffner PK, 261, 286A  
Duncan CC, 57, 289A  
Dunn HG, 304A  
Dupont B, 573  
Duvoisin RC, 95A, 104A  
Dyck PJ, 222, 469  
Dykes FD, 284A, 291A  
Dyme IZ, 291A  
Dysken M, 78A  
Earley LC, 73A, 304A  
Eastwood AB, 90A  
Eccleston A, 92A  
Edwards A, 91A  
Eguren LA, 283A  
Ehmann WD, 511  
Eidelberg E, 77A  
Eldridge R, 203  
Elias SB, 206  
Ellis G, 288A  
Ellison P, 292A  
Elsas LJ, 230

- Engel WK, 45, 77A, 82A, 86A, 238  
 Ensminger WD, 99A  
 Ertel PJ, 76A, 104A  
 Escourrolle R, 127  
 Evans OB, 86A  
 Eylar EH, 91A
- Faden AI, 326  
 Fahn S, 94A  
 Fales HM, 82A, 86A  
 Farmer RG, 82A  
 Farrell DF, 84A, 87A, 364  
 Farrell K, 299A  
 Feasby TE, 86A  
 Fenichel GM, 89A  
 Ferguson TB, 97A  
 Ferrendelli JA, 88A  
 Ferro JM, 402  
 Fine M, 298A  
 Finklestein S, 79A  
 Firestone S, 98A  
 Fischbeck KH, 384  
 Fischer JM, 283A  
 Fisher M, 95A  
 Fishman MA, 297A  
 Fishman RA, 75A  
 Fleisher L, 305A  
 Fleming P, 72A  
 Flintoff M, 301A  
 Flynn R, 73A  
 Foley KM, 77A  
 Fonnum F, 78A  
 Foo D, 76A  
 Forbes G, 89A  
 Forbes GS, 458  
 Foutz AS, 369  
 Fox JH, 100A  
 Fox P, 102A  
 Franco I, 103A  
 Frank LM, 73A, 294A, 304A  
 Frank Y, 18  
 Freeman JM, 286A  
 French JH, 299A, 302A  
 Frenkel E, 79A, 99A  
 Freund H-J, 202  
 Frey KA, 214  
 Fuchs S, 83A  
 Furman RE, 251  
 Furukawa T, 61, 199, 274
- Gajdusek DC, 193, 341  
 Galdi A, 238  
 Gamboa E, 98A  
 Gandhi M, 81A  
 Garruto RM, 341  
 Garvey WF, 97A  
 Gastaut JL, 392  
 Gatley RD, 103A  
 Gaul GE, 305A  
 Gebel HM, 97A  
 Geehr RB, 57  
 Genel M, 298A  
 Geschwind N, 495  
 Ghetti B, 87A  
 Gibbs CJ Jr, 193  
 Gillin JC, 73A
- Gitelman H, 494  
 Glantz RH, 94A  
 Glatt SL, 100A  
 Glaubiger LM, 91A, 297A  
 Glosser G, 72A  
 Glueck CJ, 285A  
 Goddard J, 305A  
 Godolphin WJ, 299A  
 Goetz CG, 94A, 203  
 Golden C, 100A  
 Goldiner PL, 102A  
 Goldman MR, 75A  
 Goldman S, 81A  
 Goldstein GW, 295A  
 Gomez DG, 333  
 Gomez MR, 90A  
 Gonder JR, 99A  
 Goodin DT, 511  
 Goodwin L, 302A  
 Goren H, 96A  
 Gossage J, 93A  
 Gotoh F, 65  
 Gould RJ, 86A, 285A  
 Graham JS, 149  
 Graves MC, 397  
 Greenberg HS, 99A  
 Greenhouse AH, 100A  
 Grey J, 494  
 Griffin DE, 55, 74A  
 Griggs RC, 89A, 89A  
 Groothuis DR, 283A  
 Grover WD, 298A, 300A  
 Guilleminault C, 296A, 369  
 Gumbinas M, 196
- Haas RH, 283A  
 Haerer AF, 72A, 93A  
 Hahn D, 294A  
 Haimovic IC, 106A  
 Haley EC Jr, 99A  
 Hall WW, 351  
 Haller RG, 84A  
 Hamburger R, 82A  
 Hanley DF, 98A  
 Hansen LA, 106A  
 Hanson PA, 62, 297A  
 Hanson WR, 102A, 173  
 Hare TA, 35  
 Harris MB, 304A  
 Hartlage PL, 294A  
 Hartman J, 396  
 Hartwig G, 85A  
 Haruda F, 303A  
 Hauhart RE, 286A, 306A  
 Hause L, 243  
 Hauser SL, 283A  
 Hauw JJ, 127  
 Hayman LA, 95A  
 Hays AP, 90A  
 Heckman HM, 478  
 Hellmann J, 302A  
 Henderson VW, 102A  
 Henn V, 101A  
 Herrmann J, 576  
 Hernández MJ, 286A, 295A  
 Hertzeanu H, 277  
 Hewitt C, 296A
- Hilal SK, 285A  
 Hill A, 109, 284A, 288A, 297A, 301A  
 Hill S, 79A  
 Hinshaw WS, 75A  
 Hiob L, 97A  
 Hirano A, 18  
 Hiratsuka H, 61  
 Hirayama M, 92A  
 Hirsch RL, 74A  
 Hitz K, 106A  
 Ho K-c, 243  
 Hochman MS, 496  
 Hochwald GM, 81A  
 Hoffman PM, 196  
 Hogan WJ, 454, 576  
 Holaday JW, 326  
 Holden JE, 103A  
 Holt PJ, 293A  
 Hopkins LC, 230  
 Horne MK, 92A  
 Horoupian DS, 184  
 Hossain TIM, 511  
 Hotson JR, 11  
 Houck GE, 299A  
 Houff S, 96A  
 Howard FM Jr, 90A  
 Howard G, 105  
 Huang YP, 304A, 400  
 Hudson P, 91A  
 Hume AL, 411  
 Huntington HW, 277  
 Hurst LN, 227  
 Hutchison HT, 268  
 Hutton JT, 101A  
 Hwang T-F, 300A
- Iivanainen M, 96A  
 Inaba Y, 61  
 Inoue K, 18  
 Ishak KG, 64  
 Ito M, 73A, 287A
- Jabbari B, 80A  
 Jablecki C, 82A  
 Jackson JA, 230  
 Jacobs B, 96A  
 Jacobs TP, 326  
 Jacobsen R, 298A  
 James S, 64  
 Jane JA, 106A  
 Jankovic J, 64, 78A  
 Jarrett PD, 285A  
 Jedeikin R, 288A  
 Jenner P, 399  
 Johnson RT, 74A, 93A  
 Johnson WG, 91A, 297A  
 Johnston MV, 293A, 301A  
 Johnston RB, 159  
 Jones HR, 105A  
 Joyn RJ, 75A  
 Junck L, 99A
- Kahana E, 204  
 Kaniefsky K, 35  
 Kannel WB, 105A  
 Kanner RM, 77A  
 Kantor FS, 83A
- Karnes WE, 458  
 Karp HR, 91A, 297A  
 Karpati G, 63  
 Kastrukoff LF, 97A  
 Katz J, 478  
 Katz L, 35  
 Katzman R, 506  
 Kearfott KJ, 102A  
 Kelfer HM, 300A  
 Kennedy C, 73A, 287A  
 Kennedy PGE, 74A  
 Kerr DS, 291A  
 Kessler RM, 73A  
 Khan A, 95A  
 Khurana RK, 80A  
 Kien CL, 576  
 Kieras FJ, 299A  
 Kikuchi K, 79A  
 Kim SU, 87A  
 Kindt G, 99A  
 Kingsbury D, 82A  
 Kistler JP, 75A  
 Klass DW, 74A  
 Klawans HL, 94A, 203  
 Kleinschmidt-DeMasters BK, 561  
 Knauss TA, 87A  
 Knobler RL, 400  
 Kobetz SA, 496  
 Kocoshis SA, 85A  
 Koenigsberger R, 90A  
 Kokmen E, 100A  
 Koller WC, 100A  
 Kolodny E, 87A  
 Korczyn AD, 204  
 Korein J, 53, 247, 573  
 Korn JH, 488  
 Kornfeld M, 38, 290A  
 Korobkin R, 296A  
 Kovnar EH, 289A, 303A  
 Kozlowski P, 302A  
 Kravath RE, 18  
 Krischer JP, 28  
 Kuhl DE, 76A, 76A, 102A, 173  
 Kupersmith M, 247  
 Kuroiwa Y, 61
- Lakatua DJ, 388  
 Lambert EH, 222  
 Lambrecht R, 289A  
 Lance JW, 1  
 Lane RJM, 581  
 Lapham LW, 75A  
 Lapinsky RH, 79A  
 Latov N, 73A  
 Laureno R, 79A  
 Lazowski E, 84A  
 Lazzara A, 284A, 291A  
 Lee RG, 523  
 Leech RW, 390  
 Lenn NJ, 283A  
 Lepow M, 62  
 Leshner RT, 294A, 397  
 Levadow L, 247, 573  
 Levy DE, 79A  
 Levy HL, 299A

- Lewis A, 88A  
 Lewis SF, 84A  
 Lhermitte F, 127  
 Liebermann A, 247  
 Lindo de Soriano I, 74A  
 Lipkowitz R, 506  
 Lipsky P, 79A  
 Lisak RP, 83A, 106A  
 Lo AW, 164  
 Loewenfeld IE, 275  
 Loewenson RB, 101A  
 Login IS, 398  
 Long RR, 72A, 95A  
 Longo LD, 296A  
 Lossinsky AS, 517  
 Lothman EW, 89A, 102A  
 Lott IT, 299A  
 Lovrien EW, 75A  
 Lu HC, 102A  
 Lubansky HJ, 84A  
 Lubetzki-Korn I, 92A, 271  
 Ludvigsson P, 300A  
 Lukmire NK, 80A  
 Lyon-Caen O, 127
- MacDonald JT, 305A  
 MacKenzie RA, 458  
 MacMartin MP, 84A  
 Madden D, 96A  
 Mahoney WJ, 286A  
 Makela SM, 288A  
 Maker HS, 377  
 Mandelbaum DE, 351  
 Manning R, 73A  
 Manuelidis EE, 57  
 Manyam BV, 35  
 Margolin DI, 75A  
 Markesbery WR, 511  
 Marks HG, 298A  
 Marotta CA, 429  
 Marquardt K, 292A, 292A  
 Marsden CD, 202, 399  
 Marshall LF, 404  
 Martinez CR, 580  
 Martini N, 77A  
 Marzewski D, 103A  
 Masiarz FR, 98A  
 Massey EW, 496  
 Matalon R, 290A, 292A  
 Mathews T, 85A  
 Max SR, 196  
 Mayeux R, 100A  
 Mazurek MF, 104A  
 Mazziotto JC, 76A  
 McAdams M, 91A  
 McDevitt HO, 93A  
 McDowell FH, 94A  
 McFarlin D, 96A  
 McHenry LC Jr, 105A  
 McInnes W, 100A  
 McKeon B, 547, 551  
 McKinley MP, 98A  
 McMillan SL, 206  
 McNamara PM, 105A  
 McNeill TH, 75A  
 McQuitty JC, 296A  
 Mehta B, 293A
- Melchreit R, 296A  
 Mellitts ED, 159  
 Mendell JR, 89A, 91A  
 Mendelson W, 73A  
 Menitove J, 292A  
 Ment LR, 289A  
 Messmore H, 298A  
 Mesulam M-M, 309  
 Metter EJ, 102A, 173  
 Michael LH, 305A  
 Michals K, 290A  
 Miller AE, 506  
 Miller F, 582  
 Miller JR, 82A, 96A  
 Miller RG, 202, 396  
 Minshew NJ, 78A, 85A  
 Miranda AF, 90A, 98A  
 Mishkin M, 73A  
 Mistretta CA, 105A  
 Miyaoka M, 73A, 287A  
 Moghadam H, 301A  
 Monroe G, 243  
 Monzon M, 96A  
 Moore RB, 491  
 Moretz RC, 517  
 Morrell F, 88A  
 Morrell RM, 96A  
 Moser AB, 284A  
 Moser HW, 284A  
 Mougey E, 326  
 Moxley RT, 89A  
 Mueller SM, 76A, 104A  
 Mueller TM, 76A  
 Munoz V, 73A  
 Murphy JV, 292A, 292A, 300A  
 Myers RR, 478  
 Mylin LH, 532
- Naeser M, 101A  
 Nagel JA, 101A  
 Naidu S, 290A, 298A  
 Nakamura RK, 73A  
 Nakanishi T, 400  
 Naparstek E, 271  
 Naughton M, 80A  
 Nausieda PA, 94A, 94A  
 Neale EA, 290A  
 Neighbour A, 506  
 Nelson DS, 285A  
 Nelson PG, 290A  
 Neufeld HN, 277  
 Neuwelt EA, 79A, 99A  
 Newmark ME, 73A  
 Nicastrì A, 294A  
 Nicholson JF, 90A  
 Nickles RJ, 103A  
 Nieman GW, 300A  
 Nilaver G, 73A  
 Nishimura RN, 64  
 Norenberg MD, 561  
 Norris JW, 104A  
 Nutt JG, 75A
- O'Brien J, 294A  
 O'Brien WM, 106A
- Odenwald WF, 238  
 Oger J, 92A  
 Ohnishi A, 469  
 Okazaki H, 100A  
 Oken B, 102A  
 Olanow CW, 91A  
 Olarte M, 82A  
 Oldendorf WH, 207  
 Oldstone MBA, 193  
 Omachi A, 84A  
 Orr JM, 299A  
 Ostrum M, 97A  
 Oviatt KF, 222  
 Ozaki Y, 400
- Pachner AR, 83A  
 Packer RJ, 285A  
 Pandya S, 89A  
 Paneth N, 351  
 Park YS, 85A  
 Parkes JD, 399  
 Parks JK, 283A  
 Parrish DO, 583  
 Pasternak JF, 283A  
 Patterson M, 582  
 Paty DW, 97A  
 Peatfield RC, 61  
 Peck A, 184  
 Pedley TA, 106A, 405  
 Penn AS, 78A, 82A, 86A  
 Penney JB Jr, 301A  
 Perlman JM, 288A, 301A  
 Perlow MJ, 81A  
 Perrin LS, 300A  
 Pettegrew JW, 78A, 85A  
 Peyronnard JM, 205  
 Phelps ME, 76A, 76A, 102A, 173  
 Philippart M, 298A  
 Pleasure DE, 92A, 106A  
 Plisker GA, 491  
 Plourde G, 101A  
 Plum F, 79A, 206, 206, 308  
 Podolski JL, 84A  
 Pohost GM, 75A  
 Polcyn RE, 103A  
 Pollack CP, 18  
 Pollack MS, 573  
 Ponzetto-Zimmerman C, 90A  
 Popp AJ, 103A  
 Porter RJ, 64, 73A  
 Posner JB, 92A, 293A  
 Potts DG, 333  
 Powell CL, 295A  
 Powell HC, 478  
 Powers JM, 284A  
 Prenskey AL, 289A  
 Price DL, 122  
 Price RW, 98A  
 Price T, 83A  
 Primhak R, 288A  
 Prince DA, 11  
 Prineas JW, 149  
 Pritchard PB III, 81A  
 Prusiner SB, 98A  
 Pula TP, 83A, 196  
 Pykett IL, 75A
- Rachmilewitz E, 266  
 Radoff FM, 581  
 Rammohan KW, 97A  
 Ramos PL, 299A  
 Ramsay RE, 89A  
 Rao KR, 85A  
 Reches A, 94A  
 Reddick R, 64  
 Reddy A, 95A  
 Reddy MN, 292A  
 Reed RK, 298A  
 Reed WD, 196  
 Reggia J, 83A  
 Reichert WH, 94A  
 Reik I Jr, 488  
 Reinherz E, 283A  
 Reitz B, 305A  
 Reppun TS, 289A  
 Reydel PM, 90A  
 Reyes M, 95A  
 Reynolds RN, 300A  
 Richardson AE, 106A  
 Riege WH, 102A  
 Ringel SP, 83A  
 Rivello JJ, 298A  
 Robbins DS, 193  
 Rodeheaver G, 99A  
 Rodey GE, 97A  
 Rodichok LD, 103A  
 Rodriguez M, 90A  
 Roedenbeck S, 74A  
 Roessmann U, 243  
 Rogers WL, 214  
 Roloff DW, 295A  
 Roos RP, 98A  
 Ropper AH, 400  
 Rose AL, 294A  
 Rose FC, 61  
 Rosen Jeffrey, 100A  
 Rosen JL, 106A  
 Rosen John, 302A  
 Rosen W, 580  
 Rosenbaum JT, 93A  
 Rosenberg RN, 18  
 Rosenstock JG, 285A  
 Roses AD, 85A, 91A, 494  
 Rossier AB, 76A  
 Rostami A, 106A  
 Ronzetto-Zimmerman C, 90A  
 Rothman AS, 304A  
 Rothman SM, 304A  
 Rothner AD, 287A, 448  
 Rothschild BB, 420  
 Rottenberg DA, 99A, 102A  
 Rowland LP, 91A, 297A  
 Rudolf L, 390  
 Ruff RL, 92A  
 Rushton AR, 57  
 Russell DH, 495  
 Russman BS, 296A
- Sachdeo R, 88A  
 Sackett JF, 105A  
 Sage JI, 104A  
 Sagel J, 81A  
 Saito Y, 98A  
 Salazar FJ, 429

- Santiago J, 88A  
 Santos AV, 82A  
 Sarpel G, 84A  
 Sasaki H, 400  
 Sato S, 73A  
 Sato Y, 87A  
 Saul RF, 79A  
 Savino PJ, 285A  
 Sazant A, 91A  
 Schachter M, 399  
 Scharz NJ, 285A, 540  
 Schechter R, 184  
 Scheld WM, 99A  
 Schoenberg BS, 72A, 93A, 100A  
 Schubert DSP, 582  
 Schulz DW, 286A, 306A  
 Schutta HS, 400  
 Schwartz DM, 80A  
 Schwartz WJ, 268  
 Schwartzman RJ, 77A, 103A  
 Sears ES, 95A  
 Seeger JF, 99A  
 Selhorst JB, 79A  
 Selkoe DJ, 429  
 Serwer GA, 85A  
 Sever J, 96A  
 Shahani BT, 87A, 486  
 Shapira Y, 266  
 Shapiro I, 101A  
 Shapiro W, 293A  
 Sharpe JA, 164  
 Sharpless NS, 580  
 Shaywitz BA, 57, 306A  
 Sheppard I, 299A  
 Sher PK, 290A  
 Sheremata W, 91A, 304A  
 Shields WD, 465  
 Shimizu S, 293A  
 Shingleton BJ, 99A  
 Shinohara T, 199  
 Shiozawa Z, 400  
 Shorr J, 271  
 Shoukimas GM, 486  
 Shoumaker R, 497  
 Shults WT, 540  
 Shuman R, 497  
 Shumate JB, 88A, 89A  
 Siegal T, 271  
 Silberberg DH, 92A  
 Silides DJ, 377  
 Silverboard G, 291A  
 Simon RP, 80A, 88A, 384, 566  
 Singer HS, 303A, 307A  
 Singer WD, 300A  
 Skolnik PR, 83A  
 Skuse NF, 547, 551  
 Smith CB, 287A  
 Smith DL, 497  
 Smith R, 82A  
 Snead OC, 355  
 Snyder BD, 388  
 Snyder RD, 290A  
 Snyder SH, 402  
 Soffer D, 271  
 Sokoloff L, 73A, 287A  
 Somasundaram M, 400  
 Soto-Velasco J, 103A  
 Spire JP, 80A  
 Sriram S, 93A  
 Standefer JC, 38  
 Stark RE, 159  
 Steeg CN, 86A  
 Steel JG, 74A  
 Stein DA, 89A  
 Stein RB, 523  
 Steinman L, 93A  
 Sterman AB, 87A  
 Stern Y, 100A  
 Stewart RM, 78A  
 Stewart WB, 289A  
 Storch FI, 73A  
 Streib EW, 448, 496  
 Strother CM, 105A  
 Stump DA, 105A  
 Stumpf DA, 283A  
 Suda S, 73A, 287A  
 Sufit RL, 83A  
 Sumi SM, 87A  
 Sumner AJ, 106A  
 Sun SF, 496  
 Swedberg K, 364  
 Swick HM, 290A, 454  
 Swift TR, 397  
 Swinton NR, 105A  
 Szymanska I, 91A  
 Tallal P, 159  
 Talman WT, 308  
 Tan EN, 83A  
 Tanner CM, 94A  
 Taveras J, 75A  
 Taylor DA, 284A, 297A  
 Taylor R, 83A  
 Tenner M, 302A  
 Terry LC, 81A  
 Terry RD, 184  
 Thal LJ, 580  
 Theodore W, 73A  
 Thompson HS, 275  
 Thurston JH, 286A, 306A  
 Tindall RSA, 437  
 Todd DW, 390  
 Todorov AB, 583  
 Tomita M, 65  
 Toole JF, 105A  
 Towfighi J, 302A, 570  
 Traub RD, 405  
 Trauner DA, 288A, 289A  
 Tremblay RD, 35  
 Trice J, 289A  
 Trick GL, 28  
 Trobe JD, 28  
 Troost BT, 108  
 Trotter JL, 97A  
 Tsai SY, 76A  
 Tune L, 303A  
 Tur-Kaspa R, 271  
 Uhl GR, 580  
 Uhl HSM, 100A  
 Vaisberg A, 74A  
 Valderrama R, 98A  
 VanDyke DH, 89A  
 Vannucci R, 302A  
 Van Uitert RL, 104A  
 Varkey GP, 557  
 Vielma J, 75A  
 Volicer L, 401  
 Volpe JJ, 109, 284A, 288A, 297A, 301A, 303A, 305A  
 Waldman MTG, 106A  
 Walker JE, 78A  
 Wallen W, 96A  
 Walsh PJ, 288A  
 Wannamaker BB, 81A  
 Wasterlain CG, 173  
 Waybright EA, 79A  
 Weaver D, 307A  
 Weiner HL, 283A  
 Weiner WJ, 94A, 94A  
 Weiss C, 377  
 Weissbarth S, 377  
 Weitzman ED, 18  
 Wenger D, 290A  
 Werlin SL, 454  
 Westall F, 82A  
 Whetsell W, 377  
 Whitaker JN, 91A  
 Whitehouse PS, 122  
 Wieland DM, 214  
 Wigger HJ, 91A, 297A  
 Wilder BJ, 89A  
 Willner JH, 90A  
 Willoughby E, 573  
 Wilson D, 85A  
 Wilson RS, 100A  
 Winn HR, 99A, 106A  
 Wisniewski HM, 517  
 Wisniewski K, 299A  
 Wolf PA, 105A  
 Wolff RR, 351  
 Wolinsky JS, 74A, 98A  
 Wollman R, 98A  
 Wood DS, 90A  
 Wooten GF, 92A  
 Yagel SK, 286A  
 Yahini JH, 277  
 Yanagihara T, 74A  
 Yanofsky CS, 62  
 Yates SK, 227, 86A  
 Yatsu FM, 104A  
 Yermenos E, 392  
 Young AB, 301A  
 Young JG, 306A  
 Young RR, 486  
 Young RSK, 286A  
 Yu JY, 77A, 103A  
 Yu R, 77A  
 Yue GM, 291A  
 Zaczek R, 303A  
 Zielke HR, 196  
 Zilber N, 204  
 Zimmerman EA, 73A  
 Zimmerman RA, 285A  
 Zweiman B, 83A



# Subject Index

## Acetylcholine

humoral immunity in myasthenia gravis, biochemical characterization of acquired antireceptor antibodies and clinical correlations (Tindall), 437

## Acid-base imbalance

brain and tumor pH in experimental meningeal carcinomatosis (Junck et al), 99A

## Acidosis

regional cerebral blood flow studies in fetal lamb during prolonged hypoxia, hypotension, acidosis, and hypercapnia (Ashwal et al), 296A

## Acoustic nerve

direct recording of human acoustic nerve and correlation with brainstem auditory evoked response (Spire and Dohrmann), 80A

## ACTH. *See* Corticotropin

## Action potentials

origin of spontaneous electrical activity at end-plate zone (Brown and Varkey), 557

## Adie syndrome

mechanism of tonic pupil (Loewenfeld and Thompson), LETTER, 275

## Adipose tissue

local panhypertrophy (Furukawa), NOTE, 274

## Adrenal cortex diseases

adrenoleukodystrophy, prenatal diagnosis and heterozygote detection (Moser et al), 284A

## Adrenal cortex hormones

effect of chronic corticosteroid administration on animal model of myoclonus (Nausieda et al), 94A  
effects of osmotic modification of blood-brain barrier and adrenal steroid administration on methotrexate delivery to rodent gliomas (Neuwelt et al), 99A

## Age factors

morphological study of hypothalamic magnocellular neurosecretory cells of aging human brain (McNeill et al), 75A

neurology of normal aging, do changes occur in neurological examination? (Greenhouse et al), 100A  
primitive reflexes and cognitive function in elderly (Glatt et al), 100A

## Ageusia

transient cortical ageusia with pericentral opercular contusion (Fox and Lothman), 102A

## Aging

abnormal eye movements in dementia and aging (Hutton et al), 101A  
evidence for induction of localized amyloid deposits and neuritic plaques by infectious agent (Wisniewski et al), 517

instrumental neutron activation analysis of brain aluminum in Alzheimer disease and aging (Markesbery et al), 511

## Alcohol abuse. *See* Alcoholism

## Alcohol, ethyl

alcohol and serum creatine kinase levels (Lane and Radoff), LETTER, 581; reply (Schubert et al), LETTER, 582

## Alcoholism

alcohol and serum creatine kinase levels (Lane and Radoff), LETTER, 581; reply (Schubert et al), LETTER, 582

cerebellar degeneration in rat following rapid correction of hyponatremia (Kleinschmidt-DeMasters and Norenberg), 561

GABA receptors in alcoholism (Volicer), LETTER, 401; reply (Snyder), LETTER, 402

neurological manifestations of accidental hypothermia (Fischbeck and Simon), 384

## Aluminum

instrumental neutron activation analysis of brain aluminum in Alzheimer disease and aging (Markesbery et al), 511

## Alzheimer disease

Alzheimer disease, evidence for selective loss of cholinergic neurons in nucleus basalis (Whitehouse et al), 122

choline chloride in Alzheimer disease (Thal et al), NOTE, 580

evidence for induction of localized amyloid deposits and neuritic plaques by infectious agent (Wisniewski et al), 517

immunological studies in senile dementia of Alzheimer type, evidence for enhanced suppressor cell activity (Miller et al), 506

instrumental neutron activation analysis of brain aluminum in Alzheimer disease and aging (Markesbery et al), 511

myelin basic protein in Alzheimer disease neuronal fractions and mammalian neurofilament preparations (Selkoe et al), 429

some morphometric aspects of brain in senile dementia of Alzheimer type (Terry et al), 184

unifying hypothesis for cause of amyotrophic lateral sclerosis, parkinsonism, and Alzheimer disease (Appel), NEUROLOGICAL PROGRESS, 499

## American Neurological Association

abstracts for 106th annual meeting, 72

program for 106th annual meeting, 66

## $\gamma$ -Aminobutyric acid

effect of L-glutamine and isoniazid on torticollis and segmental dystonia (Korein et al), 247

GABA receptors in alcoholism (Volicer), LETTER, 401; reply (Snyder), LETTER, 402

isoniazid-induced elevation of CSF GABA levels and effects on chorea in Huntington's disease (Manyam et al), 35

visualization of neurotransmitter receptor binding in human neonatal brain (Penney et al), 301A

## Ammonia, blood

hyperammonemia associated with valproic acid therapy (Coulter and Allen), 307A

## Amygdaloid body, metabolism

regional cortical origin of glutamergic and aspartergic projections to striatum, thalamus, and amygdala of rat (Walker and Fonnum), 78A

## Amyloid

evidence for induction of localized amyloid deposits and neuritic plaques by infectious agent (Wisniewski et al), 517

### Amyotrophic lateral sclerosis

- amyotrophic lateral sclerosis and parkinsonism-dementia among Filipino migrants to Guam (Garruto et al), 341
- experimental treatment of amyotrophic lateral sclerosis with interferon, pharmacokinetic studies (Jablecki et al), 82A
- humoral immunity in Guamanians with amyotrophic lateral sclerosis and parkinsonism-dementia (Hoffman et al), 193
- immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A
- unifying hypothesis for cause of amyotrophic lateral sclerosis, parkinsonism, and Alzheimer disease (Appel), NEUROLOGICAL PROGRESS, 499

### Anemia, sickle cell

- subarachnoid hemorrhage in sickle-cell disease, association with multiple cerebral aneurysms (Aron et al), 304A

### Angiography

- angiographic findings in herpes zoster arteritis (MacKenzie et al), 458
- digital video arteriography, noninvasive method to evaluate carotid arteries (Celesia et al), 105A

### Anoxia

- atypical ocular bobbing (Ropper), LETTER, 400; reply (Knobler et al), LETTER, 400

### Antibodies

- humoral immunity in myasthenia gravis, biochemical characterization of acquired antireceptor antibodies and clinical correlations (Tindall), 437
- role of monoclonal and polyclonal antibodies in experimental myasthenia (Pachner et al), 83A

### Anticoagulants

- incidence of systemic venous thrombosis and risk of anticoagulation in patients with malignant gliomas (Ruff and Posner), 92A

### Anticonvulsants

- effects of anticonvulsants on fetal mouse cerebral cortex in culture (Sher et al), 290A
- high-density lipoprotein cholesterol concentrations in plasma of children receiving anticonvulsants (Murphy et al), 292A

### Antigen-antibody complex

- immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A

### Antigen-antibody reactions

- multiple sclerosis, identification by monoclonal antibodies of effector cells mediating antibody-dependent cytotoxicity (Morrell), 96A

### Antinuclear factors

- antibodies in inflammatory myopathies (Sufit et al), 83A

### Aphasia

- correlation of metabolic and language abnormalities in aphasia (Metter et al), 102A
- <sup>18</sup>FDG positron emission computed tomography in study of aphasia (Metter et al), 173
- fluent crossed aphasia with crossed Gerstmann syndrome in right-handed man (Henderson et al), 102A
- quantitative neurophysiological analysis of aphasic syndromes (Auerbach and Naeser), 101A

### Aphasia, Broca

- recovery from aphasia, conclusions were beyond data (Culton), LETTER, 396; reply (Hartman), LETTER, 396

### Arnold-Chiari deformity

- adult Arnold-Chiari malformation type I associated with aseptic meningeal reaction (Hochman and Kobetz), LETTER, 496

### Arteriosclerosis

- differences in mortality, morbidity, and recurrence of cerebral ischemia in patients with atrial fibrillation on the basis of arteriosclerotic and rheumatic heart disease (Sage et al), 104A

### Arteriovenous malformations

- spinal seizures following intravenous contrast in patient with cord AVM (Uhl et al), LETTER, 580

### Arteritis

- angiographic findings in herpes zoster arteritis (MacKenzie et al), 458

### Asphyxia neonatorum

- brain-specific fraction of creatine kinase in healthy and asphyxiated full-term infants (Walsh et al), 288A
- seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in the newborn (Hill and Volpe), NEUROLOGICAL PROGRESS, 109

### Aspirin

- effect of acetylsalicylic acid on free valproate levels in children (Farrell et al), 299A

### Ataxia, canine

- canine ataxia (Cork), LETTER, 494

### Ataxia, familial and genetic

- familial periodic ataxia, clinical and genetic studies (Margolin et al), 75A
- olivopontocerebellar atrophy in children, report of seven cases in two families (Colan et al), 355

### Atrial fibrillation

- differences in mortality, morbidity, and recurrence of cerebral ischemia in patients with atrial fibrillation on the basis of arteriosclerotic and rheumatic heart disease (Sage et al), 104A

### Atrophy, cerebellar

- eye movements in patients with localized midline cerebellar atrophy (Baloh and Henn), 101A

### Attention

- cortical network for directed attention and unilateral neglect (Mesulam), NEUROLOGICAL PROGRESS, 309

### Attention, drug effects

- immediate and sustained efficacy of pemoline in children with attention deficit disorder (Moghadam et al), 301A

### Autonomic dysfunction

- congenital cholinergic nervous system dysfunction in identical twins (Kien et al), 576
- contribution of sympathetic autonomic and vascular abnormalities to blood pressure regulation in experimental diabetes mellitus (Mueller et al), 76A

### Autonomic nervous system

- congenital cholinergic nervous system dysfunction in identical twins (Kien et al), 576

### Axon growth

- retardation of Schwann cell division and axonal regrowth following nerve crush in experimental lead neuropathy (Ohnishi and Dyck), 469

### Axons

- <sup>14</sup>C-2-deoxyglucose uptake by rat red nucleus after axotomy (Barron et al), 103A

### Axons, injuries

- cell body changes during dying-back axonal degeneration, neurotoxic model (Serman), 87A

### Barbiturates, poisoning

- barbiturate inhibition of lymphocyte function, differing effects by various barbiturates used to induce coma (Neuwelt et al), 79A

### Barium

- penicillin- and barium-induced epileptiform bursting in

- hippocampal neurons, actions on  $\text{Ca}^{++}$  and  $\text{K}^{+}$  potentials (Hotson and Prince), 11
- Basal ganglia diseases**  
 basal ganglia calcification in Down syndrome (Wisniewski et al), 302A  
 new animal model with spontaneous abnormal movements (Diamond et al), 95A
- Benzene hexachloride, poisoning**  
 gamma benzene hexachloride neurotoxicity, CT and pathological evidence for myelin destruction (Swick), 290A
- Benzodiazepines**  
 visualization of neurotransmitter receptor binding in human neonatal brain (Penney et al), 301A
- Blood-brain barrier**  
 blood-brain barrier in experimental model of Reye syndrome (Trauner), 288A  
 effects of osmotic modification of blood-brain barrier and adrenal steroid administration on methotrexate delivery to rodent gliomas (Neuwelt et al), 99A
- Blood circulation**  
 mean flow versus pulsatility index as indicator of patent ductus arteriosus and intraventricular hemorrhage (Ellison and Denny), 292A
- Blood flow velocity**  
 effects of pneumothorax on blood flow velocity in anterior cerebral arteries of the premature infant and its importance in genesis of intraventricular hemorrhage (Hill et al), 288A
- Blood glucose**  
 alterations in serum glucose following octanoate infusion (Trice and Trauner), 289A
- Blood pressure**  
 contribution of sympathetic autonomic and vascular abnormalities to blood pressure regulation in experimental diabetes mellitus (Mueller et al), 76A
- Books**  
 brief reviews, 107, 403, 498, 584  
*Cerebrospinal Fluid in Diseases of the Nervous System*, by Fishman (Plum), 308  
*The Cholinergic Synapse*, by Tucek (Elias), 206  
*Clinical Neurophysiology of the Vestibular System*, by Baloh and Honrubia (Troost), 108  
*Developmental Aspects of Craniofacial Dysmorphology*, by Melnick and Jorgenson (McMillan), 206  
*Headache*, by Raskin and Appenzeller (Plum), 206  
*Management of Head Injuries*, by Jennett and Teasdale (Marshall), 404  
*Neural Control of Circulation*, by Hughes and Barnes (Talman), 308  
*Neurobiology of Chemical Transmission*, by Otsuka and Hall (Blosser), 107  
*Proceedings of the Second World Congress on Pain*, by Bonica et al (Davidoff), 108  
*The Quest for an Image of Brain*, by Oldendorf (Plum), 206
- Bradycardia**  
 Emery-Dreifuss humeroperoneal muscular dystrophy, X-linked myopathy with unusual contractures and bradycardia (Hopkins et al), 230
- Brain abscess**  
 treatment of experimental brain abscess with penicillin and chloramphenicol (Haley et al), 99A
- Brain anatomy**  
 some morphometric aspects of brain in senile dementia of Alzheimer type (Terry et al), 184
- Brain, blood supply**  
 chronic influence of sympathetic nerves offers protective effect to cerebral vessels of spontaneously hypertensive rat (Mueller and Ertel), 104A
- Brain chemistry**  
 brain-specific fraction of creatine kinase in healthy and asphyxiated full-term infants (Walsh et al), 288A  
 in vivo model for imaging brain dopamine systems in humans (Wooten and Horne), 92A  
 monitoring cerebral activity by surface coil nuclear magnetic resonance (Yue et al), 291A
- Brain concussion**  
 transient cortical ageusia with pericentral opercular contusion (Fox and Lothman), 102A
- Brain death**  
 real-time ultrasonographic diagnosis of cerebral death (Frank and Early), 304A
- Brain diseases**  
 abnormalities of CT scans and altered methotrexate clearance in children with central nervous system leukemia (Duffner et al), 286A  
 age-dependent in vitro restriction of mouse neurotropic retrovirus replication in central nervous system-derived cells from susceptible Fv-1<sup>nm</sup> mice (Brooks et al), 93A  
 central nervous system lesions in neonatal isoimmune thrombocytopenia (Naidu et al), 298A  
 pattern-reversal visual evoked potentials to partial field stimulation (Haimovic and Pedley), 106A
- Brain diseases, metabolic, diet therapy**  
 histidinemia, resolution of seizures on low-histidine diet (Dyme and Kerr), 291A
- Brain edema**  
 hypothesis: membrane phospholipid degradation and polyunsaturated fatty acids play key role in pathogenesis of brain edema (Fishman and Chan), 75A
- Brain enzymology**  
 regional activities of metabolic enzymes and glutamate decarboxylase in human brain (Maker et al), 377
- Brain growth and development**  
 effects of dipropylacetate on brain development (Diaz and Shields), 465
- Brain hemispheres**  
 cortical network for directed attention and unilateral neglect (Mesulam), *NEUROLOGICAL PROGRESS*, 309  
 voluntary and visual control of vestibuloocular reflex after cerebral hemidecortication (Sharpe and Lo), 164
- Brain metabolism**  
 human cerebral metabolism studied during limitations of sensory inputs (Mazziotta et al), 76A  
 local cerebral blood flow and metabolism in beagle puppy model of intraventricular hemorrhage, autoradiographic study (Ment et al), 289A  
 ontogeny of monoamine metabolites in brain and cerebrospinal fluid in normal and 6-hydroxydopamine-treated rat pups (Shaywitz et al), 306A  
 regional activities of metabolic enzymes and glutamate decarboxylase in human brain (Maker et al), 377
- Brain neoplasms**  
 extraneural metastases in childhood brain tumors (Duffner and Cohen), 261  
 hyperosmolar intracarotid mannitol increases capillary permeability to methotrexate in brain adjacent to tumor (Allen et al), 293A  
 ocular toxicity associated with BCNU in treatment of malignant brain tumors (Greenberg et al), 99A
- Brain size**  
 newborn brain weight in relation to maturity, sex, and race (Ho et al), 243

- Brain size (*continued*)  
 some morphometric aspects of brain in senile dementia of Alzheimer type (Terry et al), 184
- Brain, surgery  
 left hemisphere awareness for left hemisphere following forebrain commissurotomy (Plourde), 101A
- Brainstem atrophy  
 olivopontocerebellar atrophy in children, report of seven cases in two families (Colan et al), 355
- Brainstem, growth and development  
 epidermal growth factor localized in primate spinal cord and brainstem (Blumenkopf and Engel), 77A
- Bromocriptine. *See* 2-Bromoergocryptine
- 2-Bromoergocryptine  
 hyperprolactinemia with delayed puberty, restoration of neuroendocrine function with bromocriptine (Jacobson et al), 298A
- Brown-Sequard syndrome  
 compressive myelopathy in Schwartz-Jampel syndrome (Smith et al), LETTER, 497
- Calcinosis  
 basal ganglia calcification in Down syndrome (Wisniewski et al), 302A
- Calcium  
 myotonic dystrophy, calcium-dependent phosphatidic acid synthesis in erythrocytes (Moore et al), 491
- Canavan disease  
 computed tomography in diagnosis of Canavan's disease (Rushton et al), 57
- Caprylates  
 alterations in serum glucose following octanoate infusion (Trice and Trauner), 289A
- Carbamazepine  
 carbamazepine versus phenytoin in initial treatment of seizures, double-blind study (Ramsay et al), 89A  
 palatal myoclonus and carbamazepine (Ferro and Castro-Caldas), LETTER, 402
- Cardiac arrest. *See* Heart arrest
- Cardiac output  
 functional cardiac impairment to stress of exercise in patients with myotonic dystrophy (Rao et al), 85A
- Carmustine  
 ocular toxicity associated with BCNU in treatment of malignant brain tumors (Greenberg et al), 99A
- Carnitine  
 fat tolerance test for evaluating dicarboxylic aciduria in carnitine deficiency (Blumenkopf et al), 82A
- Carnitine, metabolism  
 familial systemic carnitine deficiency affecting two sisters, one symptomatic and the other asymptomatic (Cruse et al), 302A  
 treatment of myopathic carnitine deficiency, quantitation of response to prednisone and carnitine (Griggs et al), 89A
- Carnitine palmitoyltransferase  
 selective carnitine palmitoyltransferase deficiency in fibroblasts from patient with muscle CPT deficiency (Pula et al), 196
- Carnitine palmitoyltransferase deficiency  
 selective carnitine palmitoyltransferase deficiency in fibroblasts from patient with muscle CPT deficiency (Pula et al), 196
- Carotid arteries  
 digital video arteriography, noninvasive method to evaluate carotid arteries (Celesia et al), 105A
- Carpal tunnel syndrome surgery  
 physiological observations in median nerve during carpal tunnel surgery (Yates et al), 227
- Cataplexy  
 monoaminergic mechanisms and experimental cataplexy (Foutz et al), 369
- Cathepsins  
 immunocytochemical studies of cathepsin D in human skeletal muscle (Whitaker et al), 91A
- Cell division  
 retardation of Schwann cell division and axonal regrowth following nerve crush in experimental lead neuropathy (Ohnishi and Dyck), 469
- Cell membrane  
 Rye syndrome, correlation of membrane abnormality with outcome (Minshew and Pettegrew), 85A
- Cell membrane, physiopathology  
 further evidence of membrane abnormality in inherited dystonia (Pettegrew et al), 78A
- Cell movement  
 development of human cerebellum, immunoperoxidase study using antiserum to motilin and glial fibrillary acidic protein (Cravioto), 73A
- Cells, cultured  
 lysosomal abnormalities in cultured Schwann cells from patient with peripheral neuropathy and continuous muscle fiber activity (Askanas et al), 238  
 $\alpha$ -neurotoxin interferes with replication of influenza virus in human muscle culture (Valderrama et al), 98A
- Cephalometry  
 computed tomography in diagnosis of Canavan's disease (Rushton et al), 57
- Cerebellar ataxia, canine  
 canine ataxia (Cork), LETTER, 494
- Cerebellar diseases  
 eye movements in patients with localized midline cerebellar atrophy (Baloh and Henn), 101A
- Cerebellar diseases, familial and genetic  
 synaptic chemistry of hereditary cerebellar dysgenesis in reeler mouse (Singer et al), 307A
- Cerebellar dyssynergia  
 cerebellar dyssynergia in humans (Angel), LETTER, 202;  
 reply (Miller and Freund), LETTER, 202
- Cerebellum  
 cerebellar degeneration in rat following rapid correction of hyponatremia (Kleinschmidt-DeMasters and Norenberg), 561  
 cerebellar dyssynergia in humans (Angel), LETTER, 202;  
 reply (Miller and Freund), LETTER, 202  
 olivopontocerebellar atrophy in children, report of seven cases in two families (Colan et al), 355
- Cerebellum, anatomy and histology  
 development of human cerebellum, immunoperoxidase study using antiserum to motilin and glial fibrillary acidic protein (Cravioto), 73A
- Cerebral aneurysm  
 long-term evaluation of patients with multiple cerebral aneurysms (Winn et al), 106A  
 subarachnoid hemorrhage in sickle-cell disease, association with multiple cerebral aneurysms (Aron et al), 304A
- Cerebral cortex  
 cortical network for directed attention and unilateral neglect (Mesulam), NEUROLOGICAL PROGRESS, 309
- Cerebral cortex, drug effects  
 effects of anticonvulsants on fetal mouse cerebral cortex in culture (Sher et al), 290A



- Cerebral embolism and thrombosis  
epidemiological study of cerebral embolism, Framingham study (Bharucha et al), 105A  
paradoxical cerebral emboli, occult cause of stroke (Jones et al), 105A
- Cerebral hemorrhage  
controlled trial of phenobarbital for prevention of intraventricular hemorrhage in preterm infants (Donn et al), 295A  
effects of pneumothorax on blood flow velocity in anterior cerebral arteries of the premature infant and its importance in genesis of intraventricular hemorrhage (Hill et al), 288A  
germinal matrix in normal rhesus monkey fetus, light and electron microscopic observations (Lenn), 283A  
local cerebral blood flow and metabolism in beagle puppy model of intraventricular hemorrhage, autoradiographic study (Ment et al), 289A  
mean flow versus pulsatility index as indicator of patent ductus arteriosus and intraventricular hemorrhage (Elison and Denny), 292A  
natural history of ventricular dilatation in neonatal intraventricular hemorrhage and its therapeutic implications (Holt and Allan), 293A  
origin of porencephaly as demonstrated by sector scan (Frank and Earley), 73A  
regional cerebral blood flow in beagle model of intraventricular hemorrhage during volume expansion following acute hemorrhagic hypotension (Goddard et al), 305A  
seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in the newborn (Hill and Volpe), NEUROLOGICAL PROGRESS, 109
- Cerebral infarction  
<sup>18</sup>F-fluoromethane positron emission tomography to study regional blood flow in cerebral infarction (Celesia et al), 103A  
paramedian thalamic and midbrain infarcts, clinical and neuropathological study (Castaigne et al), 127  
proton NMR imaging in experimental ischemic cerebral infarction (Buonanno et al), 75A
- Cerebral ischemia  
differences in mortality, morbidity, and recurrence of cerebral ischemia in patients with atrial fibrillation on the basis of arteriosclerotic and rheumatic heart disease (Sage et al), 104A  
is periventricular white matter particularly sensitive to ischemia? (Young et al), 286A  
perinatal hypoxic-ischemic injury of rat brain, morphological, neurochemical, and behavioral correlates (Johnston), 293A  
seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in the newborn (Hill and Volpe), NEUROLOGICAL PROGRESS, 109
- Cerebral ischemia, transient  
proton NMR imaging in experimental ischemic cerebral infarction (Buonanno et al), 75A  
rhythmic involuntary movement as manifestation of transient ischemic attacks (Yanagihara and Klass), 74A
- Cerebral ventricles  
natural history of ventricular dilatation in neonatal intraventricular hemorrhage and its therapeutic implications (Holt and Allan), 293A  
origin of porencephaly as demonstrated by sector scan (Frank and Earley), 73A
- Cerebrospinal fluid  
cerebrospinal fluid prolactin, daily rhythm and response to haloperidol (Perlow), 81A  
cerebrospinal fluid volume flow and its glucose concentration (Hochwald et al), 81A  
CSF changes during acute meningoencephalitis in mice caused by encephalomyocarditis virus (Griffin), 55  
oligoclonal IgG bands in cerebrospinal fluid in various neurological diseases (Chu et al), 96A  
ontogeny of monoamine metabolites in brain and cerebrospinal fluid in normal and 6-hydroxydopamine-treated rat pups (Shaywitz et al), 306A
- Cerebrovascular circulation  
effect of lactacidemia on regional cerebral blood flow in newborn dog (Powell et al), 295A  
effects of pneumothorax on blood flow velocity in anterior cerebral arteries of the premature infant and its importance in genesis of intraventricular hemorrhage (Hill et al), 288A  
<sup>18</sup>F-fluoromethane positron emission tomography to study regional blood flow in cerebral infarction (Celesia et al), 103A  
germinal matrix in normal rhesus monkey fetus, light and electron microscopic observations (Lenn), 283A  
local cerebral blood flow and metabolism in beagle puppy model of intraventricular hemorrhage, autoradiographic study (Ment et al), 289A  
measurement of regional cerebral blood flow in human subjects using stable xenon and computerized tomography (Rottenberg et al), 102A  
quantitative reduction of posterior circulation by provocative arm exercise in subclavian steal syndrome, demonstration by noninvasive rCBF measurement (Stump et al), 105A  
regional cerebral blood flow in awake newborn dog, germinal matrix is "low-flow" structure (Pasternak et al), 283A  
regional cerebral blood flow in beagle model of intraventricular hemorrhage during volume expansion following acute hemorrhagic hypotension (Goddard et al), 305A  
regional cerebral blood flow studies in fetal lamb during prolonged hypoxia, hypotension, acidosis, and hypercapnia (Ashwal et al), 296A  
structure of intracerebral arteries in premature infants and autoregulation of cerebral blood flow (Haruda and Blanc), 303A
- Cerebrovascular disorders  
inappropriate antidiuresis and deteriorating stroke (Mazurek and Norris), 104A  
left ventricular thrombi seen by ventriculography are significant risk factor for stroke in open-heart surgery (Breuer et al), 103A  
lipid and lipoprotein abnormalities in pediatric victims of unexplained strokes and in their families (Bates et al), 285A  
lysosomal cholesterol ester hydrolase activity in mononuclear cells with atherosclerosis risk, hyperlipidemia and diabetes mellitus (Yatsu), 104A  
paradoxical cerebral emboli, occult cause of stroke (Jones et al), 105A
- Cerebrovascular disorders, familial and genetic  
chronic familial cerebral vasculopathy with peripheral blood lymphocyte abnormalities (Behan and Kennedy), 74A
- Cerebrum  
rearranged equation for determining local cerebral glucose utilization (Tomita and Gotoh), LETTER, 65
- Chickenpox  
fallacy of varicella hepatitis, evidence for Reye syndrome (Ludvigsson et al), 300A

- Child Neurology Society  
abstracts for tenth annual meeting, 283  
program for tenth annual meeting, 279
- Chloramphenicol  
treatment of experimental brain abscess with penicillin and chloramphenicol (Haley et al), 99A
- Cholesterol, blood  
high-density lipoprotein cholesterol concentrations in plasma of children receiving anticonvulsants (Murphy et al), 292A
- Cholesterol esters  
lysosomal cholesterol ester hydrolase activity in mononuclear cells with atherosclerosis risk, hyperlipidemia and diabetes mellitus (Yatsu), 104A
- Choline  
treatment of nonketotic hyperglycinemia with diazepam, choline, and folic acid (Matalon et al), 290A
- Choline chloride  
choline chloride in Alzheimer disease (Thal et al), NOTE, 580
- Cholinergic fibers  
Alzheimer disease, evidence for selective loss of cholinergic neurons in nucleus basalis (Whitehouse et al), 122  
congenital cholinergic nervous system dysfunction in identical twins (Kien et al), 576
- Chorea  
rhythmic involuntary movement as manifestation of transient ischemic attacks (Yanagihara and Klass), 74A
- Choroid plexus histology  
lateral, third, and fourth ventricle choroid plexus of the dog, structural and ultrastructural study (Gomez and Potts), 333
- Choroid plexus ultrastructure  
lateral, third, and fourth ventricle choroid plexus of the dog, structural and ultrastructural study (Gomez and Potts), 333
- Cimetidine  
ranitidine in migraine (Peatfield and Rose), LETTER, 61
- Clonidine  
clonidine and lithium carbonate treatment of Tourette syndrome (Borison et al), 78A
- Cluster headache  
headache (Lance), NEUROLOGICAL PROGRESS, 1
- Cognition disorders  
primitive reflexes and cognitive function in elderly (Glatt et al), 100A
- Colchicine  
convulsant action is associated with selective neurotoxicity of colchicine (Lothman and Stein), 89A
- Coma  
central somatosensory conduction after head injury (Hume and Cant), 411  
surprising good outcome of prolonged coma after severe head injury (Mahoney et al), 286A
- Coma, chemically induced  
barbiturate inhibition of lymphocyte function, differing effects by various barbiturates used to induce coma (Neuwelt et al), 79A
- Coma, diagnosis  
prognostic factors in hypoxic-ischemic coma (Caronna et al), 79A
- Contracture  
Emery-Dreifuss humeroperoneal muscular dystrophy, X-linked myopathy with unusual contractures and bradycardia (Hopkins et al), 230
- Corpus striatum  
O-methyl dopa interferes with striatal utilization of levodopa (Reches and Fahn), 94A
- Corpus striatum, metabolism  
regional cortical origin of glutamergic and aspartergic projections to striatum, thalamus, and amygdala of rat (Walker and Fonnum), 78A
- Corticotropin  
ACTH-induced cortisol production in multiple sclerosis (Snyder et al), 388
- Cortisol. *See* Hydrocortisone
- Cranial fossa, posterior, radiography  
translumbar metrizamide polytomographic encephalography in evaluation of posterior fossa in children and adolescents (Bodensteiner and Barnes), 295A
- Cranial nerve neoplasms, diagnosis  
confounding effects of high-frequency hearing loss on auditory brainstem response in diagnosis of acoustic tumor (Schwartz et al), 80A
- Cranial nerves  
congenital hypomyelination neuropathy, glial bundles in cranial and spinal nerve roots (Towfighi), 570
- Creatine kinase  
alcohol and serum creatine kinase levels (Lane and Radoff), LETTER, 581; reply (Schubert et al), LETTER, 582  
brain-specific fraction of creatine kinase in healthy and asphyxiated full-term infants (Walsh et al), 288A  
regional activities of metabolic enzymes and glutamate decarboxylase in human brain (Maker et al), 377
- Creutzfeldt-Jakob disease  
virus-induced electrotonic coupling, hypothesis on mechanism of periodic EEG discharges in Creutzfeldt-Jakob disease (Traub and Pedley), NEUROLOGICAL PROGRESS, 405
- Cryoglobulinemia  
cryoglobulinemia with encephalopathy, successful treatment by plasma exchange (Reik and Korn), 488
- Cryoglobulins  
cryoglobulinemia with encephalopathy, successful treatment by plasma exchange (Reik and Korn), 488
- Cysts  
central nervous system lesions in neonatal isoimmune thrombocytopenia (Naidu et al), 298A
- Cytochrome oxidase  
benign infantile mitochondrial myopathy due to reversible cytochrome *c* oxidase deficiency (DiMauro et al), 90A
- Decision making  
computer repository of neurological decision-making knowledge (Reggia et al), 83A
- Decussation, pyramidal. *See* Pyramidal tracts
- Deglutition disorders  
pharyngoesophageal motor function in patients with myotonic dystrophy (Swick et al), 454
- Dehydration  
on the pathogenesis of seizures during rapid rehydration in chronic hypernatremic dehydration (Thurston et al), 286A
- Dementia  
abnormal eye movements in dementia and aging (Hutton et al), 101A  
cerebral involvement in Whipple disease (Mathews and Park), 85A  
chronic familial cerebral vasculopathy with peripheral

- blood lymphocyte abnormalities (Behan and Kennedy), 74A
- reduced survival in patients with dementia, population study (Schoenberg et al), 100A
- subcortical dementia, recognizable clinical entity (Mayeux et al), 100A
- Dementia, diagnosis**
- multidimensional assessment of dementia, means of revealing distinctive clinical patterns (Drachman et al), 72A
- positron emission computed tomography in diagnosis of dementia (Benson et al), 76A
- Dementia, occurrence**
- prevalence and clinical features of dementia in biracial U.S. population, neuroepidemiological study of county in rural Mississippi (Schoenberg et al), 72A
- Dementia, senile**
- immunological studies in senile dementia of Alzheimer type, evidence for enhanced suppressor cell activity (Miller et al), 506
- some morphometric aspects of brain in senile dementia of Alzheimer type (Terry et al), 184
- Demyelinating diseases**
- development of tomographic myelin scan (Frey et al), 214
- effect of short-term and chronic immunosuppression on Theiler virus demyelination (Roos et al), 98A
- gamma benzene hexachloride neurotoxicity, CT and pathological evidence for myelin destruction (Swick), 290A
- Denervation**
- conduction block and denervation in Guillain-Barré polyneuritis (Brown et al), 86A
- Deoxyglucose**
- analysis of drug-induced tremor utilizing  $^{14}\text{C}$ -2-deoxyglucose in awake rat (Bell et al), 103A
- $^{14}\text{C}$ -2-deoxyglucose uptake by rat red nucleus after axotomy (Barron et al), 103A
- Depression**
- controlled study of behavior and cortical function in childhood manic-depressive illness (DeLong and Nieman), 300A
- Dermatomyositis**
- characterization of T-cell subsets in peripheral blood and muscle in childhood dermatomyositis (Bresnan et al), 283A
- Desmosterol**
- 20,25-diazacholesterol myotonia, electrophysiological study (Furman and Barchi), 251
- Diabetes mellitus**
- lysosomal cholesterol ester hydrolase activity in mononuclear cells with atherosclerosis risk, hyperlipidemia and diabetes mellitus (Yatsu), 104A
- Diabetes mellitus, experimental**
- contribution of sympathetic autonomic and vascular abnormalities to blood pressure regulation in experimental diabetes mellitus (Mueller et al), 76A
- Diabetic neuropathies**
- diabetic thoracoabdominal neuropathy (Massey), LETTER, 496; reply (Sun and Streib), LETTER, 496
- Diagnosis, computer assisted**
- computer repository of neurological decision-making knowledge (Reggia et al), 83A
- 20,25-Diazacholesterol**
- 20,25-diazacholesterol myotonia, electrophysiological study (Furman and Barchi), 251
- Diazepam**
- treatment of nonketotic hyperglycinemia with diazepam, choline, and folic acid (Matalon et al), 290A
- Dicarboxylic acids, urine**
- fat tolerance test for evaluating dicarboxylic aciduria in carnitine deficiency (Blumenkopf et al), 82A
- new fasting test for dicarboxylic aciduria in neuromuscular diseases (Blumenkopf et al), 86A
- Diethyl pyrocarbonate**
- chemical modification of scrapie agent protein by diethyl pyrocarbonate (McKinley et al), 98A
- Dipropylacetate.** *See* Valproate
- Disease models, animal**
- new animal model with spontaneous abnormal movements (Diamond et al), 95A
- Domperidone**
- hyperprolactinemia may have therapeutic role in Parkinson disease (Login), LETTER, 398; reply (Parkes et al), LETTER, 399
- L-Dopa.** *See* Levodopa
- Dopa decarboxylase**
- L-dopa-resistant parkinsonism due to dopa decarboxylase deficiency? (Jankovic), LETTER, 64
- Dopamine**
- hyperprolactinemia may have therapeutic role in Parkinson disease (Login), LETTER, 398; reply (Parkes et al), LETTER, 399
- in vivo model for imaging brain dopamine systems in humans (Wooten and Horne), 92A
- Down syndrome**
- basal ganglia calcification in Down syndrome (Wisniewski et al), 302A
- Ductus arteriosus, patent**
- identification of syndrome with "steal" of blood from cerebral arteries by left-to-right shunting of blood through patent ductus arteriosus in premature infants (Hill et al), 301A
- mean flow versus pulsatility index as indicator of patent ductus arteriosus and intraventricular hemorrhage (Elison and Denny), 292A
- Dysautonomia, acquired**
- sleep apnea and hypoventilation syndrome, associated with acquired nonprogressive dysautonomia, clinical and pathological studies in a child (Frank et al), 18
- Dysautonomia, familial.** *See* Autonomic dysfunction
- Dysgammaglobulinemia**
- polyneuropathy with monoclonal gammopathy, studies of 11 patients (Dalakas and Engel), 45
- Dyskinesia, drug-induced**
- study of respiration and multiple muscle electromyograms in tardive dyskinesia (Chokroverty et al), 95A
- Dystonia.** *See* Muscle dystonia
- Dystonia musculorum deformans**
- dystonia associated with myoglobinuria (Jankovic and Penn), 78A
- Dystrophin myotonia.** *See* Myotonia atrophica
- Eaton-Lambert syndrome**
- Eaton-Lambert myasthenic syndrome, long-term treatment of three patients with prednisone (Streib and Rothner), 448
- Echocardiography**
- functional cardiac impairment to stress of exercise in patients with myotonic dystrophy (Rao et al), 85A

- Education, medical, graduate  
experiences of internal medicine programs with neurology training, analysis of 375 medical centers (Breuer et al), 82A
- Electroencephalography  
virus-induced electrotonic coupling, hypothesis on mechanism of periodic EEG discharges in Creutzfeldt-Jakob disease (Traub and Pedley), *NEUROLOGICAL PROGRESS*, 405
- Electromyography  
study of respiration and multiple muscle electromyograms in tardive dyskinesia (Chokroverty et al), 95A
- Electrophysiology  
electrophysiological characteristics of Duchenne dystrophy myotubes in tissue culture (Rothman and Bischoff), 304A  
electrophysiological studies in Refsum disease (Domingue et al), 87A
- Emery-Dreifuss disease  
Emery-Dreifuss humeroperoneal muscular dystrophy, X-linked myopathy with unusual contractures and bradycardia (Hopkins et al), 230
- Encephalitis  
clinical and immunological studies of measles encephalitis (Johnson et al), 74A  
herpes virus encephalitis in severely immunocompromised patient (Hanley and Wolinsky), 98A  
immune-mediated myelin loss in focal herpes simplex infection of rat optic system (Saito and Price), 98A  
in vivo treatment with monoclonal antibody to gene products of immune response prevents experimental allergic encephalitis (Steinman et al), 93A
- Encephalitis viruses  
parainfectious acute obstructive hydrocephalus (Yanofsky et al), *NOTE*, 62
- Encephalitogenic basic proteins  
myelin basic protein in Alzheimer disease neuronal fractions and mammalian neurofilament preparations (Selkoe et al), 429
- Encephalomalacia  
is periventricular white matter particularly sensitive to ischemia? (Young et al), 286A
- Encephalomyelitis  
effect of short-term and chronic immunosuppression on Theiler virus demyelination (Roos et al), 98A
- Encephalomyocarditis viruses  
CSF changes during acute meningoencephalitis in mice caused by encephalomyocarditis virus (Griffin), 55
- Endorphins  
endorphins in experimental spinal injury, therapeutic effect of naloxone (Faden et al), 326
- Ependymoma  
extraneural metastases in childhood brain tumors (Duffner and Cohen), 261
- Epilepsy  
epilepsy partialis continua following metrizamide cisternography (Shiozawa et al), *LETTER*, 400  
folic acid-induced epileptiform behavior in vitro (Clifford and Ferrendelli), 88A  
positron emission computed tomography in refractory complex partial seizures (Newmark et al), 73A  
preoperative and postoperative blood levels of anticonvulsant drugs following operation for seizure disorder (Sachdeo and Morrell), 88A  
reflex cardiac arrest presenting as epilepsy (Braham et al), *LETTER*, 277
- Epilepsy, myoclonus  
Lafora disease, histopathological changes in liver in pre-symptomatic children (Baumann et al), 85A  
ultrastructural findings in Lafora disease (Carpenter and Karpati), *LETTER*, 63; reply (Nishimura et al), *LETTER*, 64
- Epilepsy, temporal lobe  
postictal hyperprolactinemia in complex partial epilepsy (Pritchard et al), 81A
- Epinephrine  
role of central adrenergic system in episodic secretion of thyroid stimulating hormone (Terry), 81A
- Equilibrium  
vestibular dysfunction in Parkinson disease (McDowell et al), 94A
- Errata  
clarification (Russell), *LETTER*, 495  
correction (Peyronnard), *LETTER*, 205
- Erythrocytes  
comment on erythrocyte phospholipid metabolism in myotonic muscular dystrophy (Grey et al), *LETTER*, 494  
erythrocyte membrane lysophospholipase activity in muscular dystrophy (Podolski et al), 84A
- Esophagus  
pharyngoesophageal motor function in patients with myotonic dystrophy (Swick et al), 454
- Evoked potentials  
central somatosensory conduction after head injury (Hume and Cant), 411
- Evoked potentials, visual  
effect of stimulus orientation on visual evoked potential in multiple sclerosis (Camisa et al), 532  
pattern-reversal visual evoked potentials to partial field stimulation (Haimovic and Pedley), 106A
- Exchange transfusion  
further clinical observations on effects of frequent plasma exchange transfusions in Hunter syndrome (Murphy et al), 292A
- Exertion  
functional cardiac impairment to stress of exercise in patients with myotonic dystrophy (Rao et al), 85A  
optic nerve conduction, opposing effects of exercise and hyperventilation (Saul et al), 79A  
quantitative reduction of posterior circulation by provocative arm exercise in subclavian steal syndrome, demonstration by noninvasive rCBF measurement (Strump et al), 105A
- Eye diseases  
ocular toxicity associated with BCNU in treatment of malignant brain tumors (Greenberg et al), 99A
- Eye movements  
abnormal eye movements in dementia and aging (Hutton et al), 101A  
atypical ocular bobbing (Ropper), *LETTER*, 400; reply (Knobler et al), *LETTER*, 400  
eye movements in patients with localized midline cerebellar atrophy (Baloh and Henn), 101A  
slowly alternating skew deviation, description of pretectal syndrome in three patients (Corbett et al), 540  
voluntary and visual control of vestibuloocular reflex after cerebral hemidecortication (Sharpe and Lo), 164
- Fasting  
new fasting test for dicarboxylic aciduria in neuromuscular diseases (Blumenkopf et al), 86A



- Fatty acids, metabolism  
suppression of fatty acid oxidation by valproic acid (Shumate et al), 88A
- Fatty acids, unsaturated  
hypothesis: membrane phospholipid degradation and polyunsaturated fatty acids play key role in pathogenesis of brain edema (Fishman and Chan), 75A
- Fetal blood  
human fetal  $\alpha$ -fetoprotein inhibits antibody-mediated lysis of oligodendrocytes in vitro (Lubetzki-Korn et al), 92A
- Fetus  
germinal matrix in normal rhesus monkey fetus, light and electron microscopic observations (Lenn), 283A
- Fibroblasts  
congenital hemihypertrophy, oncogenic potential of hypertrophic side (Furukawa and Shinohara), 199
- Folic acid  
folic acid-induced epileptiform behavior in vitro (Clifford and Ferrendelli), 88A  
treatment of nonketotic hyperglycinemia with diazepam, choline, and folic acid (Matalon et al), 290A
- Follow-up studies  
myasthenia gravis in children, long-term follow-up (Rodriguez et al), 90A
- Framingham study  
epidemiological study of cerebral embolism, Framingham study (Bharucha et al), 105A
- Friedreich ataxia  
mitochondrial malic enzyme deficiency in Friedreich's ataxia (Stumpf et al), 283A
- Fusimotor activity  
irrelevance of fusimotor activity to Achilles tendon jerk of relaxed humans (Burke et al), 547
- GABA. *See*  $\gamma$ -Aminobutyric acid
- Galactosemia  
increased urinary inositol in untreated galactosemia (Lott et al), 299A
- $\beta$ -Galactosidases  
clinical and biochemical heterogeneity of globoid cell leukodystrophy (Farrell and Swedberg), 364
- Ganglia, basal  
Alzheimer disease, evidence for selective loss of cholinergic neurons in nucleus basalis (Whitehouse et al), 122
- Gardener syndrome  
family affected with intestinal polyposis and gliomas (Todd et al), 390
- Gastric outlet obstruction  
gastric outlet obstruction in patient with multiple sclerosis (Graves), LETTER, 397
- Gerstmann syndrome  
fluent crossed aphasia with crossed Gerstmann syndrome in right-handed man (Henderson et al), 102A
- Gilles de la Tourette syndrome  
clinical symptomatology, cerebrospinal fluid neurotransmitter metabolites, and serum haloperidol levels in Tourette syndrome (Singer et al), 303A
- Gilles de la Tourette syndrome, drug therapy  
clonidine and lithium carbonate treatment of Tourette syndrome (Borison et al), 78A
- Glioblastoma multiforme  
family affected with intestinal polyposis and gliomas (Todd et al), 390
- Glioma  
effects of osmotic modification of blood-brain barrier and adrenal steroid administration on methotrexate delivery to rodent gliomas (Neuwelt et al), 99A  
efficacy of radiotherapy in optic gliomas (Gould et al), 285A  
extraneural metastases in childhood brain tumors (Duffner and Cohen), 261  
incidence of recurrence and efficacy of therapy in childhood chiasmatic gliomas (Packer et al), 285A  
incidence of systemic venous thrombosis and risk of anticoagulation in patients with malignant gliomas (Ruff and Posner), 92A
- Glucose, cerebral  
acute ketosis increases brain glucose and high-energy phosphates in normal developing mice (Thurston et al), 306A  
alterations in local cerebral glucose utilization in slow-wave sleep (Kennedy et al), 73A  
cerebrospinal fluid volume flow and its glucose concentration (Hochwald et al), 81A  
correlation of metabolic and language abnormalities in aphasia (Metter et al), 102A  
rearranged equation for determining local cerebral glucose utilization (Tomita and Gotoh), LETTER, 65
- Glucose metabolism  
changes in local metabolic rate for glucose in intact and acutely transected spinal cord (Schwartzman et al), 77A  
<sup>18</sup>FDG positron emission computed tomography in study of aphasia (Metter et al), 173
- Glutamate decarboxylase  
regional activities of metabolic enzymes and glutamate decarboxylase in human brain (Maker et al), 377
- Glutamine  
effect of L-glutamine and isoniazid on torticollis and segmental dystonia (Korein et al), 247
- Glycerin  
treatment of posthemorrhagic hydrocephalus with glycerol (Taylor et al), 297A
- Glycine, blood  
treatment of nonketotic hyperglycinemia with diazepam, choline, and folic acid (Matalon et al), 290A
- Glycosaminoglycans  
ultrastructural and glycosaminoglycan abnormalities in Lowe syndrome (Wisniewski et al), 299A
- Guam  
amyotrophic lateral sclerosis and parkinsonism-dementia among Filipino migrants to Guam (Garruto et al), 341  
humoral immunity in Guamanians with amyotrophic lateral sclerosis and parkinsonism-dementia (Hoffman et al), 193
- H-A antigens  
human leukocyte antigen in torticollis and other idiopathic dystonic syndromes (Korein et al), 573
- H-reflex  
dependence of Achilles tendon reflex on excitability of spinal reflex pathways (Burke et al), 551
- Haloperidol  
cerebrospinal fluid prolactin, daily rhythm and response to haloperidol (Perlow), 81A
- Headache  
headache (Lance), NEUROLOGICAL PROGRESS, 1

- Head injuries**  
central somatosensory conduction after head injury (Hume and Cant), 411  
surprising good outcome of prolonged coma after severe head injury (Mahoney et al), 286A
- Hearing loss, high-frequency**  
confounding effects of high-frequency hearing loss on auditory brainstem response in diagnosis of acoustic tumor (Schwartz et al), 80A
- Heart arrest**  
reflex cardiac arrest presenting as epilepsy (Braham et al), LETTER, 277
- Heart rate**  
potentially fatal ventricular dysrhythmias and periodic paralysis (Gould et al), 86A  
Valsalva ratio, noninvasive and quantifiable test of vagal function (Khurana), 80A
- Heart surgery**  
left ventricular thrombi seen by ventriculography are significant risk factor for stroke in open-heart surgery (Breuer et al), 103A
- Hematoxylin**  
improved phosphotungstic acid-hematoxylin stain for glial fibers (Huntington), LETTER, 277
- Hemiplegia**  
angiographic findings in herpes zoster arteritis (MacKenzie et al), 458  
nature of decussated innervation of sternocleidomastoid muscle (Geschwind), LETTER, 495; reply (Balagura), LETTER, 498
- Hemodynamics**  
pathophysiology of postictal pulmonary edema, cardiac factors (Simon and Naughton), 80A
- Hemolysis**  
human fetal  $\alpha$ -fetoprotein inhibits antibody-mediated lysis of oligodendrocytes in vitro (Lubetzki-Korn et al), 92A
- Herpes simplex**  
herpes virus encephalitis in severely immunocompromised patient (Hanley and Wolinsky), 98A
- Herpes zoster**  
angiographic findings in herpes zoster arteritis (MacKenzie et al), 458
- Herpesvirus hominis**  
immune-mediated myelin loss in focal herpes simplex infection of rat optic system (Saito and Price), 98A  
isolation of herpes simplex virus type 1 in recurrent (Mollaret) meningitis (Steel et al), 74A
- Herpesvirus infections**  
herpes virus encephalitis in severely immunocompromised patient (Hanley and Wolinsky), 98A
- Hexosaminidases**  
family studies in Kugelberg-Welander disease with hexosaminidase A deficiency, an alpha-locus genetic compound (Johnson et al), 297A  
juvenile spinal muscular atrophy, new hexosaminidase phenotype (Johnson et al), 91A
- Hippocampus**  
penicillin- and barium-induced epileptiform bursting in hippocampal neurons, actions on  $Ca^{++}$  and  $K^{+}$  potentials (Hotson and Prince), 11
- Hispanic Americans**  
Spanish-American variant of Niemann-Pick disease (Snyder et al), 290A
- Histidine, blood**  
histidinemia, resolution of seizures on low-histidine diet (Dyme and Kerr), 291A
- Homocystinuria**  
homocystinuria and methylmalonic aciduria, disorder of intracellular cobalamin-dependent metabolites and defective methyltransferase (Brown et al), 305A
- Hunter syndrome**  
further clinical observations on effects of frequent plasma exchange transfusions in Hunter syndrome (Murphy et al), 292A
- Huntington chorea**  
isoniazid-induced elevation of CSF GABA levels and effects on chorea in Huntington's disease (Manyam et al), 35  
prediction of Huntington's disease (Marsden), LETTER, 202; reply (Goetz and Klawans), LETTER, 203
- Hydranencephaly**  
hydranencephaly secondary to intrauterine hydrocephalus with good neurological outcome (Kovnar and Volpe), 303A
- Hydrocephalus**  
hydranencephaly secondary to intrauterine hydrocephalus with good neurological outcome (Kovnar and Volpe), 303A  
natural history of progressive posthemorrhagic hydrocephalus (Ahmann et al), 284A  
parainfectious acute obstructive hydrocephalus (Yanofsky et al), NOTE, 62  
progressive posthemorrhagic hydrocephalus, factors predicting response to lumbar puncture management (Lazzara et al), 291A  
treatment of posthemorrhagic hydrocephalus by serial lumbar puncture, factors that account for success or failure (Hill et al), 284A  
treatment of posthemorrhagic hydrocephalus with glycerol (Taylor et al), 297A
- Hydrocortisone**  
ACTH-induced cortisol production in multiple sclerosis (Snyder et al), 388
- Hypercapnia**  
regional cerebral blood flow studies in fetal lamb during prolonged hypoxia, hypotension, acidosis, and hypercapnia (Ashwal et al), 296A
- Hypergammaglobulinemia**  
polyneuropathy with monoclonal gammopathy, studies of 11 patients (Dalakas and Engel), 45
- Hyperlipidemia**  
lipid and lipoprotein abnormalities in pediatric victims of unexplained strokes and in their families (Bates et al), 285A  
lysosomal cholesterol ester hydrolase activity in mononuclear cells with atherosclerosis risk, hyperlipidemia and diabetes mellitus (Yatsu), 104A
- Hypernatremia**  
on the pathogenesis of seizures during rapid rehydration in chronic hypernatremic dehydration (Thurston et al), 286A
- Hypertension**  
chronic influence of sympathetic nerves offers protective effect to cerebral vessels of spontaneously hypertensive rat (Mueller and Ertel), 104A  
regional cerebral blood flow in beagle model of intraventricular hemorrhage during volume expansion following acute hemorrhagic hypotension (Goddard et al), 305A
- Hypertrophy, familial and genetic**  
congenital hemihypertrophy, oncogenic potential of hypertrophic side (Furukawa and Shinohara), 199

- Hyperventilation**  
 optic nerve conduction, opposing effects of exercise and hyperventilation (Saul et al), 79A
- Hypomyelination**  
 congenital hypomyelination neuropathy, glial bundles in cranial and spinal nerve roots (Towfighi), 570
- Hyponatremia**  
 cerebellar degeneration in rat following rapid correction of hyponatremia (Kleinschmidt-DeMasters and Norenberg), 561  
 pontine and extrapontine myelinolysis following rapid correction of experimental hyponatremia (Laureno), 79A
- Hypotension**  
 regional cerebral blood flow studies in fetal lamb during prolonged hypoxia, hypotension, acidosis, and hypercapnia (Ashwal et al), 296A
- Hypothalamus**  
 morphological study of hypothalamic magnocellular neurosecretory cells of aging human brain (McNeill et al), 75A
- Hypothermia**  
 biophysical and pathological effects of cryogenic nerve lesion (Myers et al), 478  
 neurological manifestations of accidental hypothermia (Fischbeck and Simon), 384
- Hypoventilation**  
 sleep apnea and hypoventilation syndrome associated with acquired nonprogressive dysautonomia, clinical and pathological studies in a child (Frank et al), 18
- Hypoventilation, central alveolar.** *See* Sleep apnea syndromes
- Hypoxia**  
 perinatal hypoxic-ischemic injury of rat brain, morphological, neurochemical, and behavioral correlates (Johnston), 293A  
 regional cerebral blood flow studies in fetal lamb during prolonged hypoxia, hypotension, acidosis, and hypercapnia (Ashwal et al), 296A  
 seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in the newborn (Hill and Volpe), *NEUROLOGICAL PROGRESS*, 109
- Immunoglobulin G**  
 multiple sclerosis, capping of surface immunoglobulin G on macrophages engaged in myelin breakdown (Prineas and Graham), 149
- Immunoglobulins**  
 humoral immunity in Guamanians with amyotrophic lateral sclerosis and parkinsonism-dementia (Hoffman et al), 193  
 occurrence of oligoclonal bands in multiple sclerosis and other central nervous system diseases (Burke et al), 96A  
 oligoclonal IgG bands in cerebrospinal fluid in various neurological diseases (Chu et al), 96A
- Immunoglobulins, surface**  
 multiple sclerosis, capping of surface immunoglobulin G on macrophages engaged in myelin breakdown (Prineas and Graham), 149
- Immunosuppression**  
 effect of short-term and chronic immunosuppression on Theiler virus demyelination (Roos et al), 98A
- Inappropriate ADH syndrome**  
 inappropriate antidiuresis and deteriorating stroke (Mazurek and Norris), 104A
- Infant, newborn**  
 newborn brain weight in relation to maturity, sex, and race (Ho et al), 243
- Infant, premature**  
 blood and cerebrospinal fluid lactate and pyruvate in premature newborn infants (Hellmann et al), 302A  
 controlled trial of phenobarbital for prevention of intraventricular hemorrhage in preterm infants (Donn et al), 295A  
 effects of pneumothorax on blood flow velocity in anterior cerebral arteries of the premature infant and its importance in genesis of intraventricular hemorrhage (Hill et al), 288A  
 identification of syndrome with "steal" of blood from cerebral arteries by left-to-right shunting of blood through patent ductus arteriosus in premature infants (Hill et al), 301A  
 natural history of progressive posthemorrhagic hydrocephalus (Ahmann et al), 284A  
 progressive posthemorrhagic hydrocephalus, factors predicting response to lumbar puncture management (Lazzara et al), 291A  
 structure of intracerebral arteries in premature infants and autoregulation of cerebral blood flow (Haruda and Blanc), 303A  
 treatment of posthemorrhagic hydrocephalus with glycerol (Taylor et al), 297A
- Influenza vaccine**  
 peripheral nerve myelin P2 protein in influenza vaccine (Shermata et al), 91A
- Influenza virus type A.** *See* Orthomyxovirus type A
- Inositol**  
 increased urinary inositol in untreated galactosemia (Lott et al), 299A
- Interferon**  
 experimental treatment of amyotrophic lateral sclerosis with interferon, pharmacokinetic studies (Jablecki et al), 82A  
 immunological studies in senile dementia of Alzheimer type, evidence for enhanced suppressor cell activity (Miller et al), 506
- Interictal spikes**  
 virus-induced electrotonic coupling, hypothesis on mechanism of periodic EEG discharges in Creutzfeldt-Jakob disease (Traub and Pedley), *NEUROLOGICAL PROGRESS*, 405
- Internal medicine**  
 experiences of internal medicine programs with neurology training, analysis of 375 medical centers (Breuer et al), 82A
- Intestinal polyps**  
 family affected with intestinal polyposis and gliomas (Todd et al), 390
- Iodobenzenes**  
 development of tomographic myelin scan (Frey et al), 214
- Ion channels**  
 penicillin- and barium-induced epileptiform bursting in hippocampal neurons, actions on  $Ca^{++}$  and  $K^{+}$  potentials (Hotson and Prince), 11
- Iris**  
 iris pigmentation (melanin) in idiopathic dystonic syndromes including torticollis (Korein), 53
- Isoniazid**  
 effect of L-glutamine and isoniazid on torticollis and segmental dystonia (Korein et al), 247

### Isoniazid (*continued*)

isoniazid-induced elevation of CSF GABA levels and effects on chorea in Huntington's disease (Manyam et al), 35

### Isoprinosine

SSPE, measles virus, and matrix protein, report of case with unusual immunochemical findings (Mandelbaum et al), 351

### Jews

inheritance of torsion dystonia in Jews (Eldridge), LETTER, 203; reply (Korczyn et al), LETTER, 204

### Keratin

congenital hemihypertrophy, oncogenic potential of hypertrophic side (Furukawa and Shinohara), 199

### Ketosis

acute ketosis increases brain glucose and high-energy phosphates in normal developing mice (Thurston et al), 306A

### Kugelberg-Welander disease

chronic spinal muscular atrophy, static, or progressive disease? (Russman et al), 296A

family studies in Kugelberg-Welander disease with hexosaminidase A deficiency, an alpha-locus genetic compound (Johnson et al), 297A

### Lactates

blood and cerebrospinal fluid lactate and pyruvate in premature newborn infants (Hellmann et al), 302A

### Lactates, blood

effect of lactacidemia on regional cerebral blood flow in newborn dog (Powell et al), 295A

### Lafora disease. *See* Epilepsy, myoclonus

### Language development disorders

neurological status of language-impaired and normal children (Johnston et al), 159

### Language disorders

correlation of metabolic and language abnormalities in aphasia (Metter et al), 102A

neurological status of language-impaired and normal children (Johnston et al), 159

### Laterality

fluent crossed aphasia with crossed Gerstmann syndrome in right-handed man (Henderson et al), 102A

left hemisphere awareness for left hemispace following forebrain commissurotomy (Plourde), 101A

### Lead, adverse effects

retardation of Schwann cell division and axonal regrowth following nerve crush in experimental lead neuropathy (Ohnishi and Dyck), 469

### Leigh disease

computerized tomography in subacute necrotizing encephalomalypathy (Leigh disease) (Schwartz et al), 268

### Leukemia

lymphoma and leukemia presenting with "steroid-responsive" polyneuropathy (Sumi et al), 87A

### Leukemia, lymphoblastic

abnormalities of CT scans and altered methotrexate clearance in children with central nervous system leukemia (Duffner et al), 286A

### Leukocyte adherence inhibition test

evaluation of leukocyte adherence inhibition tests in multiple sclerosis (Barna et al), 96A

### Leukodystrophy

adrenoleukodystrophy, prenatal diagnosis and heterozygote detection (Moser et al), 284A

computed tomography in diagnosis of Canavan's disease (Rushton et al), 57

### Leukodystrophy, globoid cell

clinical and biochemical heterogeneity of globoid cell leukodystrophy (Farrell and Swedberg), 364

### Leukodystrophy, metachromatic

metachromatic leukodystrophy with normal arylsulfatase activity (Philippart et al), 298A

### Leukoviruses

age-dependent in vitro restriction of mouse neurotropic retrovirus replication in central nervous system-derived cells from susceptible Fv-1<sup>nm</sup> mice (Brooks et al), 93A

### Levodopa

L-dopa-resistant parkinsonism due to dopa decarboxylase deficiency? (Jankovic), LETTER, 64

O-methyldopa interferes with striatal utilization of levodopa (Reches and Fahn), 94A

### Lipoproteins

lipid and lipoprotein abnormalities in pediatric victims of unexplained strokes and in their families (Bates et al), 285A

### Lithium

clonidine and lithium carbonate treatment of Tourette syndrome (Borison et al), 78A

### Liver diseases

fallacy of varicella hepatitis, evidence for Reye syndrome (Ludvigsson et al), 300A

Lafora disease, histopathological changes in liver in pre-symptomatic children (Baumann et al), 85A

### Liver, ultrastructure

ultrastructural findings in Lafora disease (Carpenter and Karpati), LETTER, 63; reply (Nishimura et al), LETTER, 64

### Lowe syndrome

ultrastructural and glycosaminoglycan abnormalities in Lowe syndrome (Wisniewski et al), 299A

### Lymphocytes

monoclonal antibody analysis of blood T cell subsets in myasthenia gravis (Skolnik et al), 83A

### Lymphocytes, metabolism

barbiturate inhibition of lymphocyte function, differing effects by various barbiturates used to induce coma (Neuwelt et al), 79A

### Lymphoma

lymphoma and leukemia presenting with "steroid-responsive" polyneuropathy (Sumi et al), 87A

### Lysophospholipase

erythrocyte membrane lysophospholipase activity in muscular dystrophy (Podolski et al), 84A

### Lysosomes

comparison of multiple molecular forms of lysosomal enzymes in mucopolipidosis II and III (Farrell and MacMartin), 84A

lysosomal cholesterol ester hydrolase activity in mononuclear cells with atherosclerosis risk, hyperlipidemia and diabetes mellitus (Yatsu), 104A

### Macrophages

multiple sclerosis, capping of surface immunoglobulin G on macrophages engaged in myelin breakdown (Prineas and Graham), 149

### Major histocompatibility complex

in vivo treatment with monoclonal antibody to gene products of immune response prevents experimental allergic encephalitis (Steinman et al), 93A



- Malate dehydrogenase  
mitochondrial malic enzyme deficiency in Friedreich's ataxia (Stumpf et al), 283A
- Malignant hyperthermia  
variant of malignant hyperthermia in child with Duchenne muscular dystrophy (Singer et al), 300A
- Malonates, urine  
homocystinuria and methylmalonic aciduria, disorder of intracellular cobalamin-dependent metabolites and defective methyltransferase (Brown et al), 305A
- Mannitol  
hyperosmolar intracarotid mannitol increases capillary permeability to methotrexate in brain adjacent to tumor (Allen et al), 293A
- Maytansine  
experimental neurofibrillary degeneration in cultured neurons induced by maytansinoids (Kim et al), 87A
- McArdle disease  
disordered oxidative metabolism in McArdle disease (Haller et al), 84A  
in McArdle disease, phosphorylase deficiency is tip of iceberg (Willner et al), 90A
- Measles virus  
clinical and immunological studies of measles encephalitis (Johnson et al), 74A  
SSPE, measles virus, and matrix protein, report of case with unusual immunochemical findings (Mandelbaum et al), 351
- Median nerve  
central somatosensory conduction after head injury (Hume and Cant), 411
- Median nerve physiology  
physiological observations in median nerve during carpal tunnel surgery (Yates et al), 227
- Medulloblastoma  
extraneural metastases in childhood brain tumors (Duffner and Cohen), 261
- Meglumine iohalamate  
spinal seizures following intravenous contrast in patient with cord AVM (Uhl et al), LETTER, 580
- Melanin  
iris pigmentation (melanin) in idiopathic dystonic syndromes including torticollis (Korein), 53
- Membrane potentials  
origin of spontaneous electrical activity at end-plate zone (Brown and Varkey), 557  
penicillin- and barium-induced epileptiform bursting in hippocampal neurons, actions on  $Ca^{++}$  and  $K^{+}$  potentials (Horson and Prince), 11  
virus-induced electrotonic coupling, hypothesis on mechanism of periodic EEG discharges in Creutzfeldt-Jakob disease (Traub and Pedley), NEUROLOGICAL PROGRESS, 405
- Membrane proteins  
SSPE, measles virus, and matrix protein, report of case with unusual immunochemical findings (Mandelbaum et al), 351
- Meningeal neoplasms  
brain and tumor pH in experimental meningeal carcinomatosis (Junck et al), 99A
- Meningeal reaction  
adult Arnold-Chiari malformation type I associated with aseptic meningeal reaction (Hochman and Kobetz), LETTER, 496
- Meninges  
adult Arnold-Chiari malformation type I associated with aseptic meningeal reaction (Hochman and Kobetz), LETTER, 496
- Meningitis, Mollaret  
isolation of herpes simplex virus type 1 in recurrent (Mollaret) meningitis (Steel et al), 74A
- Meningitis, viral  
isolation of herpes simplex virus type 1 in recurrent (Mollaret) meningitis (Steel et al), 74A
- Meningoencephalitis  
CSF changes during acute meningoencephalitis in mice caused by encephalomyocarditis virus (Griffin), 55
- Mesencephalon  
paramedian thalamic and midbrain infarcts, clinical and neuropathological study (Castaigne et al), 127
- Methotrexate  
abnormalities of CT scans and altered methotrexate clearance in children with central nervous system leukemia (Duffner et al), 286A  
effects of osmotic modification of blood-brain barrier and adrenal steroid administration on methotrexate delivery to rodent gliomas (Neuwelt et al), 99A  
hyperosmolar intracarotid mannitol increases capillary permeability to methotrexate in brain adjacent to tumor (Allen et al), 293A
- Methylodopa  
O-methylodopa interferes with striatal utilization of levodopa (Reches and Fahn), 94A
- Metrizamide  
epilepsy partialis continua following metrizamide cisternography (Shiozawa et al), LETTER, 400  
translumbar metrizamide polytomographic encephalography in evaluation of posterior fossa in children and adolescents (Bodensteiner and Barnes), 295A
- Mice  
embryogenesis of large motor neurons of normal and wobbler mouse (Hanson), 297A  
synaptic chemistry of hereditary cerebellar dysgenesis in reeler mouse (Singer et al), 307A
- Migraine  
familial hemiplegic migraine, EEG and CT scan study of two cases (Gastaut et al), 392  
headache (Lance), NEUROLOGICAL PROGRESS, 1  
ranitidine in migraine (Peatfield and Rose), LETTER, 61
- Minnesota  
reduced survival in patients with dementia, population study (Schoenberg et al), 100A
- Mississippi  
prevalence and clinical features of dementia in biracial U.S. population, neuroepidemiological study of county in rural Mississippi (Schoenberg et al), 72A  
prevalence of essential tremor in biracial adult population of Copiah County, Mississippi (Haerer et al), 93A
- Mitochondria  
correction (Peyronnard), LETTER, 205  
mitochondrial malic enzyme deficiency in Friedreich's ataxia (Stumpf et al), 283A
- Mitochondria, muscle  
benign infantile mitochondrial myopathy due to reversible cytochrome *c* oxidase deficiency (DiMauro et al), 90A
- Models, neurological  
cell body changes during dying-back axonal degeneration, neurotoxic model (Serman), 87A
- Models, theoretical  
rearranged equation for determining local cerebral glucose utilization (Tomica and Gotoh), LETTER, 65

- Monoamines**  
monoaminergic mechanisms and experimental cataplexy (Foutz et al), 369
- Motor end-plate**  
origin of spontaneous electrical activity at end-plate zone (Brown and Varkey), 557
- Motor neurons**  
embryogenesis of large motor neurons of normal and wobbler mouse (Hanson), 297A
- Mucopolipidosis**  
comparison of multiple molecular forms of lysosomal enzymes in mucopolipidosis II and III (Farrell and MacMartin), 84A
- Multiple myeloma**  
myeloma protein synthesis within CNS by plasma cell tumors (Siegal et al), 271
- Multiple sclerosis**  
ACTH-induced cortisol production in multiple sclerosis (Snyder et al), 388  
amyotrophy in multiple sclerosis, pseudoneurogenic process (Fisher et al), 95A  
childhood multiple sclerosis, report of 12 cases (Shermata et al), 304A  
chronic progressive multiple sclerosis has low suppressor cell levels (Paty et al), 97A  
differences between antibody-induced modulation of suppressor cells and suppressor cell changes in multiple sclerosis (Antel et al), 92A  
effect of stimulus orientation on visual evoked potential in multiple sclerosis (Camisa et al), 532  
emerging patterns of lesion activity during exacerbations of multiple sclerosis (Sears et al), 95A  
evaluation of leukocyte adherence inhibition tests in multiple sclerosis (Barna et al), 96A  
gastric outlet obstruction in patient with multiple sclerosis (Graves), LETTER, 397  
induced decrease in percentage of T<sub>H</sub> cells and suppressor activity in peripheral blood of patients with multiple sclerosis (Trotter et al), 97A  
multiple sclerosis, capping of surface immunoglobulin G on macrophages engaged in myelin breakdown (Prineas and Graham), 149  
multiple sclerosis, identification by monoclonal antibodies of effector cells mediating antibody-dependent cytotoxicity (Morrell), 96A  
occurrence of oligoclonal bands in multiple sclerosis and other central nervous system diseases (Burke et al), 96A  
zinc in multiple sclerosis (Dore-Duffy et al), 97A
- Multiple sclerosis occurrence**  
incidence and prevalence of reported multiple sclerosis (Baum and Rothschild), 420
- Muscle dystonia**  
cholinergic mechanisms in idiopathic partial and segmental dystonias (Tanner et al), 94A  
effect of L-glutamine and isoniazid on torticollis and segmental dystonia (Korein et al), 247  
human leukocyte antigen in torticollis and other idiopathic dystonic syndromes (Korein et al), 573  
inheritance of torsion dystonia in Jews (Eldridge), LETTER, 203; reply (Korczyn et al), LETTER, 204  
iris pigmentation (melanin) in idiopathic dystonic syndromes including torticollis (Korein), 53
- Muscle dystonia, familial and genetic**  
further evidence of membrane abnormality in inherited dystonia (Pettegrew et al), 78A
- Muscle rigidity**  
congenital stiff-man syndrome (Desai), LETTER, 583
- Muscle spindle fibers**  
dependence of Achilles tendon reflex on excitability of spinal reflex pathways (Burke et al), 551  
irrelevance of fusimotor activity to Achilles tendon jerk of relaxed humans (Burke et al), 547
- Muscles**  
lysosomal abnormalities in cultured Schwann cells from patient with peripheral neuropathy and continuous muscle fiber activity (Askas et al), 238  
 $\alpha$ -neurotoxin interferes with replication of influenza virus in human muscle culture (Valderrama et al), 98A  
pyruvate oxidation by muscle fiber type following nerve crush (Evans), 86A
- Muscles, pathology**  
congenital fiber type disproportion, expansion of clinical syndrome (Riviello et al), 298A
- Muscular atrophy**  
amyotrophy in multiple sclerosis, pseudoneurogenic process (Fisher et al), 95A  
chronic spinal muscular atrophy, static, or progressive disease? (Russman et al), 296A  
family studies in Kugelberg-Welander disease with hexosaminidase A deficiency, an alpha-locus genetic compound (Johnson et al), 297A  
juvenile spinal muscular atrophy, new hexosaminidase phenotype (Johnson et al), 91A  
variant of malignant hyperthermia in child with Duchenne muscular dystrophy (Singer et al), 300A
- Muscular diseases**  
antibodies in inflammatory myopathies (Sufit et al), 83A  
benign infantile mitochondrial myopathy due to reversible cytochrome c oxidase deficiency (DiMauro et al), 90A  
treatment of myopathic carnitine deficiency, quantitation of response to prednisone and carnitine (Griggs et al), 89A
- Muscular dystrophy**  
electrophysiological characteristics of Duchenne dystrophy myotubes in tissue culture (Rothman and Bischoff), 304A  
Emery-Dreifuss humeroperoneal muscular dystrophy, X-linked myopathy with unusual contractures and bradycardia (Hopkins et al), 230  
erythrocyte membrane lysophospholipase activity in muscular dystrophy (Podolski et al), 84A  
immunocytochemical studies of cathepsin D in human skeletal muscle (Whitaker et al), 91A  
natural history of Duchenne muscular dystrophy, caveat for therapeutic trials (Brooke et al), 89A  
vitamin E deficiency in Werdnig-Hoffmann disease (Shapira et al), 266
- Mutation**  
clinical and biochemical heterogeneity of globoid cell leukodystrophy (Farrell and Swedberg), 364
- Myasthenia gravis**  
humoral immunity in myasthenia gravis, biochemical characterization of acquired antireceptor antibodies and clinical correlations (Tindall), 437  
immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A  
monoclonal antibody analysis of blood T cell subsets in myasthenia gravis (Skolnik et al), 83A  
myasthenia gravis in children, long-term follow-up (Rodriguez et al), 90A  
on the mechanism of pathogenesis of human myasthenia gravis (Roses et al), 91A  
plasmapheresis in myasthenia gravis (Miller), LETTER, 396; reply (Swift et al), LETTER, 397

- role of monoclonal and polyclonal antibodies in experimental myasthenia (Pachner et al), 83A
- Myasthenic syndrome**  
Eaton-Lambert myasthenic syndrome, long-term treatment of three patients with prednisone (Streib and Rothner), 448
- Mydriasis**  
transient bilateral visual reduction and mydriasis after propranolol treatment (Parrish and Todorov), LETTER, 583
- Myelin basic proteins.** *See* Encephalitogenic basic proteins
- Myelin proteins**  
comparison of P2 protein with whole peripheral nerve myelin in production of experimental allergic neuritis (Rostami et al), 106A  
development of tomographic myelin scan (Frey et al), 214  
peripheral nerve myelin P2 protein in influenza vaccine (Shermata et al), 91A
- Myelin sheath**  
development of tomographic myelin scan (Frey et al), 214  
multiple sclerosis, capping of surface immunoglobulin G on macrophages engaged in myelin breakdown (Prineas and Graham), 149
- Myelin sheath, pathology**  
pontine and extrapontine myelinolysis following rapid correction of experimental hyponatremia (Laurenco), 79A
- Myeloma proteins**  
myeloma protein synthesis within CNS by plasma cell tumors (Siegal et al), 271
- Myoclonus**  
cherry-red spot-myoclonus syndrome (sialidosis type I), report of another family and characterization of storage material in the viscera (Rose et al), 294A  
effect of chronic corticosteroid administration on animal model of myoclonus (Nausieda et al), 94A  
palatal myoclonus and carbamazepine (Ferro and Castro-Caldas), LETTER, 402
- Myoglobinuria**  
dystonia associated with myoglobinuria (Jankovic and Penn), 78A  
phosphoglycerate kinase deficiency, new cause of recurrent myoglobinuria (DiMauro et al), 90A
- Myotonia**  
20,25-diazacholesterol myotonia, electrophysiological study (Furman and Barchi), 251
- Myotonia atrophica**  
comment on erythrocyte phospholipid metabolism in myotonic muscular dystrophy (Grey et al), LETTER, 494  
functional cardiac impairment to stress of exercise in patients with myotonic dystrophy (Rao et al), 85A  
myotonic dystrophy, calcium-dependent phosphatidic acid synthesis in erythrocytes (Moore et al), 491  
pharyngoesophageal motor function in patients with myotonic dystrophy (Swick et al), 454
- Myotonic dystrophy.** *See* Myotonia atrophica
- Naloxone**  
endorphins in experimental spinal injury, therapeutic effect of naloxone (Faden et al), 326
- Narcolepsy**  
monoaminergic mechanisms and experimental cataplexy (Foutz et al), 369
- Neoplasm metastasis**  
extraneural metastases in childhood brain tumors (Duffner and Cohen), 261
- Nerve degeneration**  
cerebellar degeneration in rat following rapid correction of hyponatremia (Kleinschmidt-DeMasters and Norenberg), 561  
myelin basic protein in Alzheimer disease neuronal fractions and mammalian neurofilament preparations (Selkoe et al), 429
- Nerve endings**  
biophysical and pathological effects of cryogenic nerve lesion (Myers et al), 478  
congenital hypomyelination neuropathy, glial bundles in cranial and spinal nerve roots (Towfighi), 570
- Nerve growth factors**  
epidermal growth factor localized in primate spinal cord and brainstem (Blumenkopf and Engel), 77A  
growth-promoting effect of C-6 glioma-conditioned media on spinal cord cells (Amico et al), 77A
- Nervous system diseases**  
computer repository of neurological decision-making knowledge (Reggia et al), 83A  
lymphoma and leukemia presenting with "steroid-responsive" polyneuropathy (Sumi et al), 87A  
occurrence of oligoclonal bands in multiple sclerosis and other central nervous system diseases (Burke et al), 96A  
oligoclonal IgG bands in cerebrospinal fluid in various neurological diseases (Chu et al), 96A
- Nervous system, drug effects**  
 $\alpha$ -neurotoxin interferes with replication of influenza virus in human muscle culture (Valderrama et al), 98A
- Neural conduction**  
conduction block and denervation in Guillain-Barré polyneuritis (Brown et al), 86A  
direct recording of human acoustic nerve and correlation with brainstem auditory evoked response (Spire and Dohrmann), 80A  
optic nerve conduction, opposing effects of exercise and hyperventilation (Saul et al), 79A
- Neuritis**  
comparison of P2 protein with whole peripheral nerve myelin in production of experimental allergic neuritis (Rostami et al), 106A
- Neurofibrils**  
experimental neurofibrillary degeneration in cultured neurons induced by maytansinoids (Kim et al), 87A
- Neuroglia**  
congenital hypomyelination neuropathy, glial bundles in cranial and spinal nerve roots (Towfighi), 570  
improved phosphotungstic acid-hematoxylin stain for glial fibers (Huntington), LETTER, 277
- Neurological examination**  
neurology of normal aging, do changes occur in neurological examination? (Greenhouse et al), 100A
- Neurological progress**  
cortical network for directed attention and unilateral neglect (Mesulam), 309  
headache (Lance), 1  
nuclear medicine in clinical neurology, update (Oldendorf), 207  
seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in newborn (Hill and Volpe), 109  
unifying hypothesis for the cause of amyotrophic lateral sclerosis, parkinsonism, and Alzheimer disease (Appel), 499  
virus-induced electrotonic coupling, hypothesis on the mechanism of periodic EEG discharges in Creutzfeldt-Jakob disease (Traub and Pedley), 405

- Neurology training**  
experiences of internal medicine programs with neurology training, analysis of 375 medical centers (Breuer et al), 82A
- Neuromuscular diseases**  
clarification (Russell), LETTER, 495  
new fasting test for dicarboxylic aciduria in neuromuscular diseases (Blumenkopf et al), 86A
- Neuromuscular junction**  
origin of spontaneous electrical activity at end-plate zone (Brown and Varkey), 557
- Neuropathy, hereditary sensory**  
intensive evaluation of referred unclassified neuropathies yields improved diagnosis (Dyck et al), 222
- Neuroregulators**  
GABA receptors in alcoholism (Volicer), LETTER, 401; reply (Snyder), LETTER, 402  
visualization of neurotransmitter receptor binding in human neonatal brain (Penney et al), 301A
- Neutron activation analysis**  
instrumental neutron activation analysis of brain aluminum in Alzheimer disease and aging (Markesbery et al), 511
- Niemann-Pick disease**  
Spanish-American variant of Niemann-Pick disease (Snyder et al), 290A
- Nuclear magnetic resonance**  
monitoring cerebral activity by surface coil nuclear magnetic resonance (Yue et al), 291A  
nuclear medicine in clinical neurology (Oldendorf), NEUROLOGICAL PROGRESS, 207  
proton NMR imaging in experimental ischemic cerebral infarction (Buonanno et al), 75A
- Nuclear medicine**  
nuclear medicine in clinical neurology (Oldendorf), NEUROLOGICAL PROGRESS, 207
- Octanoates. See Caprylates**
- Oligodendroglia**  
human fetal  $\alpha$ -fetoprotein inhibits antibody-mediated lysis of oligodendrocytes in vitro (Lubetzki-Korn et al), 92A  
role for sterol in oligodendroglial differentiation (Volpe and Reitz), 305A
- Oligosaccharides**  
cherry-red spot-myoclonus syndrome (sialidosis type I), report of another family and characterization of storage material in the viscera (Rose et al), 294A
- Optic nerve**  
optic nerve conduction, opposing effects of exercise and hyperventilation (Saul et al), 79A
- Optic nerve diseases**  
immune-mediated myelin loss in focal herpes simplex infection of rat optic system (Saito and Price), 98A
- Orthomyxovirus type A**  
 $\alpha$ -neurotoxin interferes with replication of influenza virus in human muscle culture (Valderrama et al), 98A
- Osteoma**  
urinary retention as sole symptom of intracranial calcified mass at Rolandic fissure (Kuroiwa et al), NOTE, 61
- Oxygen consumption**  
disordered oxidative metabolism in McArdle disease (Haller et al), 84A
- Palatal muscles**  
palatal myoclonus and carbamazepine (Ferro and Castro-Caldas), LETTER, 402
- Pancoast syndrome**  
epidural spinal cord compression in Pancoast syndrome (superior pulmonary sulcus tumor), clinical presentation and outcome (Kanner et al), 77A
- Paralysis, familial periodic**  
potentially fatal ventricular dysrhythmias and periodic paralysis (Gould et al), 86A
- Parasympatholytics**  
cholinergic mechanisms in idiopathic partial and segmental dystonias (Tanner et al), 94A
- Parkinson disease**  
hyperprolactinemia may have therapeutic role in Parkinson disease (Login), LETTER, 398; reply (Parkes et al), LETTER, 399  
O-methyldopa interferes with striatal utilization of levodopa (Reches and Fahn), 94A  
resetting of tremor by mechanical perturbations, comparison of essential tremor and parkinsonian tremor (Lee and Stein), 523  
unifying hypothesis for cause of amyotrophic lateral sclerosis, parkinsonism, and Alzheimer disease (Appel), NEUROLOGICAL PROGRESS, 499  
vestibular dysfunction in Parkinson disease (McDowell et al), 94A
- Parkinsonian dementia**  
amyotrophic lateral sclerosis and parkinsonism-dementia among Filipino migrants to Guam (Garruto et al), 341  
humoral immunity in Guamanians with amyotrophic lateral sclerosis and parkinsonism-dementia (Hoffman et al), 193
- Pemoline**  
immediate and sustained efficacy of pemoline in children with attention deficit disorder (Moghadam et al), 301A
- Penicillin G**  
penicillin- and barium-induced epileptiform bursting in hippocampal neurons, actions on  $Ca^{++}$  and  $K^{+}$  potentials (Hotson and Prince), 11
- Penicillins**  
treatment of experimental brain abscess with penicillin and chloramphenicol (Haley et al), 99A
- Perimetry**  
confrontation visual field techniques in detection of anterior visual pathway lesions (Trobe et al), 28
- Peripheral nerve**  
peripheral nerve unmyelinated axons following lumbar sympathectomy (Chad et al), 486
- Peripheral nerve diseases**  
immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A  
intensive evaluation of referred unclassified neuropathies yields improved diagnosis (Dyck et al), 222  
lysosomal abnormalities in cultured Schwann cells from patient with peripheral neuropathy and continuous muscle fiber activity (Askanas et al), 238  
polyneuropathy with monoclonal gammopathy, studies of 11 patients (Dalakas and Engel), 45
- Peripheral nervous system diseases**  
correction (Peyronnard), LETTER, 205
- Pharyngeal muscles**  
pharyngoesophageal motor function in patients with myotonic dystrophy (Swick et al), 454
- Phenobarbital**  
controlled trial of phenobarbital for prevention of intraventricular hemorrhage in preterm infants (Donn et al), 295A  
effect of status epilepticus on brain uptake of phenobarbital (Simon et al), 88A  
preoperative and postoperative blood levels of anticon-



- vulsant drugs following operation for seizure disorder (Sachdeo and Morrell), 88A
- Phenytoin**  
 carbamazepine versus phenytoin in initial treatment of seizures, double-blind study (Ramsay et al), 89A  
 preoperative and postoperative blood levels of anticonvulsant drugs following operation for seizure disorder (Sachdeo and Morrell), 88A
- Phosphates**  
 acute ketosis increases brain glucose and high-energy phosphates in normal developing mice (Thurston et al), 306A
- Phosphatidic acid**  
 comment on erythrocyte phospholipid metabolism in myotonic muscular dystrophy (Grey et al), LETTER, 494  
 myotonic dystrophy, calcium-dependent phosphatidic acid synthesis in erythrocytes (Moore et al), 491
- Phosphoglycerate kinase**  
 phosphoglycerate kinase deficiency, new cause of recurrent myoglobinuria (DiMauro et al), 90A
- Phosphoinositides**  
 myotonic dystrophy, calcium-dependent phosphatidic acid synthesis in erythrocytes (Moore et al), 491
- Phosphoprotein phosphatases**  
 in McArdle disease, phosphorylase deficiency is tip of iceberg (Willner et al), 90A
- Phosphotungstic acid**  
 improved phosphotungstic acid-hematoxylin stain for glial fibers (Huntington), LETTER, 277
- Pituitary diseases**  
 hyperprolactinemia with delayed puberty, restoration of neuroendocrine function with bromocriptine (Jacobson et al), 298A
- Plasmacytoma**  
 myeloma protein synthesis within CNS by plasma cell tumors (Siegal et al), 271
- Plasmapheresis**  
 cryoglobulinemia with encephalopathy, successful treatment by plasma exchange (Reik and Korn), 488  
 immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A  
 plasmapheresis-dependent recovery from chronic polyradiculoneuropathy (Kovnar et al), 289A  
 plasmapheresis in myasthenia gravis (Miller), LETTER, 396; reply (Swift et al), LETTER, 397
- Pneumoencephalography**  
 epilepsy partialis continua following metrizamide cisternography (Shiozawa et al), LETTER, 400  
 nuclear medicine in clinical neurology (Oldendorf), NEUROLOGICAL PROGRESS, 207
- Pneumothorax**  
 effects of pneumothorax on blood flow velocity in anterior cerebral arteries of the premature infant and its importance in genesis of intraventricular hemorrhage (Hill et al), 288A
- Poliomyelitis**  
 effect of short-term and chronic immunosuppression on Theiler virus demyelination (Roos et al), 98A  
 immune complex levels in neurological disorders treated by plasmapheresis (Miller et al), 82A
- Polyamines**  
 clarification (Russell), LETTER, 495
- Polyradiculoneuritis**  
 conduction block and denervation in Guillain-Barré polyneuritis (Brown et al), 86A  
 peripheral nerve myelin P2 protein in influenza vaccine (Shermata et al), 91A
- plasmapheresis-dependent recovery from chronic polyradiculoneuropathy (Kovnar et al), 289A
- Prednisone**  
 Eaton-Lambert myasthenic syndrome, long-term treatment of three patients with prednisone (Streib and Rothner), 448  
 treatment of myopathic carnitine deficiency, quantitation of response to prednisone and carnitine (Griggs et al), 89A
- Prenatal diagnosis**  
 adrenoleukodystrophy, prenatal diagnosis and heterozygote detection (Moser et al), 284A
- Pretecal syndrome**  
 slowly alternating skew deviation, description of pretecal syndrome in three patients (Corbett et al), 540
- Prolactin**  
 cerebrospinal fluid prolactin, daily rhythm and response to haloperidol (Perlow), 81A  
 hyperprolactinemia with delayed puberty, restoration of neuroendocrine function with bromocriptine (Jacobson et al), 298A  
 hyperprolactinemia may have therapeutic role in Parkinson disease (Login), LETTER, 398; reply (Parkes et al), LETTER, 399  
 postictal hyperprolactinemia in complex partial epilepsy (Pritchard et al), 81A
- Propranolol**  
 transient bilateral visual reduction and mydriasis after propranolol treatment (Parrish and Todorov), LETTER, 583
- Proteins**  
 plasticity of visual system of newborn monkey involves changes in protein synthesis (Kennedy et al), 287A
- Pulmonary circulation**  
 systemic and pulmonary vascular pressures during generalized seizures in sheep (Bayne and Simon), 566
- Pulmonary edema**  
 pathophysiology of postictal pulmonary edema, cardiac factors (Simon and Naughton), 80A  
 systemic and pulmonary vascular pressures during generalized seizures in sheep (Bayne and Simon), 566
- Pupil**  
 mechanism of tonic pupil (Loewenfeld and Thompson), LETTER, 275
- Pyramidal tracts**  
 nature of decussated innervation of sternocleidomastoid muscle (Geschwind), LETTER, 495; reply (Balagura), LETTER, 498
- Pyruvate metabolism**  
 computerized tomography in subacute necrotizing encephalomyelopathy (Leigh disease) (Schwartz et al), 268
- Pyruvates**  
 blood and cerebrospinal fluid lactate and pyruvate in premature newborn infants (Hellmann et al), 302A  
 pyruvate oxidation by muscle fiber type following nerve crush (Evans), 86A
- Radiotherapy**  
 efficacy of radiotherapy in optic gliomas (Gould et al), 285A
- Ranitidine**  
 ranitidine in migraine (Peatfield and Rose), LETTER, 61
- Rapid eye movements.** See Sleep, REM
- Receptors, nicotinic**  
 humoral immunity in myasthenia gravis, biochemical characterization of acquired antireceptor antibodies and clinical correlations (Tindall), 437

- Red nucleus**  
<sup>14</sup>C-2-deoxyglucose uptake by rat red nucleus after axotomy (Barron et al), 103A
- Reflex**  
 primitive reflexes and cognitive function in elderly (Glatt et al), 100A
- Reflex physiopathology**  
 resetting of tremor by mechanical perturbations, comparison of essential tremor and parkinsonian tremor (Lee and Stein), 523
- Reflex, tendon**  
 dependence of Achilles tendon reflex on excitability of spinal reflex pathways (Burke et al), 551  
 irrelevance of fusimotor activity to Achilles tendon jerk of relaxed humans (Burke et al), 547
- Reflex, vestibuloocular**  
 voluntary and visual control of vestibuloocular reflex after cerebral hemidecortication (Sharpe and Lo), 164
- Refsum syndrome**  
 electrophysiological studies in Refsum disease (Dominique et al), 87A
- Respiration disorders**  
 study of respiration and multiple muscle electromyograms in tardive dyskinesia (Chokroverty et al), 95A
- Reviewers, ad hoc**, 34
- Reye syndrome**  
 blood-brain barrier in experimental model of Reye syndrome (Trauner), 288A  
 fallacy of varicella hepatitis, evidence for Reye syndrome (Ludvigsson et al), 300A  
 Reye syndrome, correlation of membrane abnormality with outcome (Minshew and Pettegrew), 85A
- Reye syndrome, drug-induced**  
 comparisons of valproate-, 4-pentenoate-, and octanoate-induced Reye-like syndromes in rabbits (Murphy and Hwang), 300A
- Rheumatic heart disease**  
 differences in mortality, morbidity, and recurrence of cerebral ischemia in patients with atrial fibrillation on the basis of arteriosclerotic and rheumatic heart disease (Sage et al), 104A
- Riboflavin deficiency**  
 riboflavin deficiency—reversible "neurodegenerative disease" (Leshner et al), 294A
- Rolandic fissure**  
 urinary retention as sole symptom of intracranial calcified mass at Rolandic fissure (Kuroiwa et al), NOTE, 61
- Sarcolemma**  
 20,25-diazacholesterol myotonia, electrophysiological study (Furman and Barchi), 251
- Schwann cells**  
 lysosomal abnormalities in cultured Schwann cells from patient with peripheral neuropathy and continuous muscle fiber activity (Askanas et al), 238  
 retardation of Schwann cell division and axonal regrowth following nerve crush in experimental lead neuropathy (Ohnishi and Dyck), 469
- Schwartz-Jampel syndrome**  
 compressive myelopathy in Schwartz-Jampel syndrome (Smith et al), LETTER, 497
- Sciatic nerve, injuries**  
 pyruvate oxidation by muscle fiber type following nerve crush (Evans), 86A
- Scrapie virus**  
 chemical modification of scrapie agent protein by diethyl pyrocarbonate (McKinley et al), 98A  
 evidence for induction of localized amyloid deposits and neuritic plaques by infectious agent (Wisniewski et al), 517
- Seizures**  
 carbamazepine versus phenytoin in initial treatment of seizures, double-blind study (Ramsay et al), 89A  
 on the pathogenesis of seizures during rapid rehydration in chronic hypernatremic dehydration (Thurston et al), 286A  
 positron emission computed tomography in refractory complex partial seizures (Newmark et al), 73A  
 seizures, hypoxic-ischemic brain injury, and intraventricular hemorrhage in the newborn (Hill and Volpe), NEUROLOGICAL PROGRESS, 109  
 spinal seizures following intravenous contrast in patient with cord AVM (Uhl et al), LETTER, 580  
 systemic and pulmonary vascular pressures during generalized seizures in sheep (Bayne and Simon), 566
- Sensory deprivation**  
 human cerebral metabolism studied during limitations of sensory inputs (Mazziotta et al), 76A
- Sjögren syndrome**  
 treatment of Sjögren-Larssen syndrome with medium-chain triglycerides (Chaves-Carballo et al), 294A
- Skew deviation**  
 slowly alternating skew deviation, description of pretectal syndrome in three patients (Corbett et al), 540
- Sleep apnea syndromes**  
 sleep apnea and hypoventilation syndrome associated with acquired nonprogressive dysautonomia, clinical and pathological studies in a child (Frank et al), 18
- Sleep apnea syndromes, congenital**  
 congenital central alveolar hypoventilation syndrome, report on six cases (Guilleminault et al), 296A
- Sleep, REM**  
 monoaminergic mechanisms and experimental cataplexy (Foutz et al), 369
- Sleep, slow-wave**  
 alterations in local cerebral glucose utilization in slow-wave sleep (Kennedy et al), 73A
- Somatosensory cortex**  
 central somatosensory conduction after head injury (Hume and Cant), 411
- Speech therapy**  
 recovery from aphasia, conclusions were beyond data (Culton), LETTER, 396; reply (Hartman), LETTER, 396
- Spinal cord compression**  
 compressive myelopathy in Schwartz-Jampel syndrome (Smith et al), LETTER, 497  
 epidural spinal cord compression in Pancoast syndrome (superior pulmonary sulcus tumor), clinical presentation and outcome (Kanner et al), 77A
- Spinal cord, growth and development**  
 epidermal growth factor localized in primate spinal cord and brainstem (Blumenkopf and Engel), 77A  
 growth-promoting effect of C-6 glioma-conditioned media on spinal cord cells (Amico et al), 77A
- Spinal cord injuries**  
 changes in local metabolic rate for glucose in intact and acutely transected spinal cord (Schwartzman et al), 77A  
 endorphins in experimental spinal injury, therapeutic effect of naloxone (Faden et al), 326

- Spinal diseases**  
 chronic spinal muscular atrophy, static, or progressive disease? (Russman et al), 296A  
 family studies in Kugelberg-Welander disease with hexosaminidase A deficiency, an alpha-locus genetic compound (Johnson et al), 297A  
 juvenile spinal muscular atrophy, new hexosaminidase phenotype (Johnson et al), 91A
- Spinal nerves**  
 congenital hypomyelination neuropathy, glial bundles in cranial and spinal nerve roots (Towfighi), 570
- Spinal puncture**  
 natural history of progressive posthemorrhagic hydrocephalus (Ahmann et al), 284A  
 progressive posthemorrhagic hydrocephalus, factors predicting response to lumbar puncture management (Lazzara et al), 291A  
 treatment of posthemorrhagic hydrocephalus by serial lumbar puncture, factors that account for success or failure (Hill et al), 284A
- Spine, blood supply**  
 anterior spinal artery syndrome and its evolution (Foo and Rossier), 76A
- SSPE. See Subacute sclerosing panencephalitis**
- Stains and staining**  
 improved phosphotungstic acid-hematoxylin stain for glial fibers (Huntington), LETTER, 277
- Status epilepticus**  
 effect of status epilepticus on brain uptake of phenobarbital (Simon et al), 88A
- Sternocleidomastoid muscle innervation**  
 nature of decussated innervation of sternocleidomastoid muscle (Geschwind), LETTER, 495; reply (Balagura), LETTER, 498
- Steroids**  
 lymphoma and leukemia presenting with "steroid-responsive" polyneuropathy (Sumi et al), 87A
- Sterols**  
 role for sterol in oligodendroglial differentiation (Volpe and Reitz), 305A
- Stiff-man syndrome. See Muscle rigidity**
- Subacute necrotizing encephalomyelopathy**  
 computerized tomography in subacute necrotizing encephalomyelopathy (Leigh disease) (Schwartz et al), 268
- Subacute sclerosing panencephalitis**  
 SSPE, measles virus, and matrix protein, report of case with unusual immunochemical findings (Mandelbaum et al), 351
- Subarachnoid hemorrhage**  
 subarachnoid hemorrhage in sickle-cell disease, association with multiple cerebral aneurysms (Aron et al), 304A
- Subclavian steal syndrome**  
 quantitative reduction of posterior circulation by provocative arm exercise in subclavian steal syndrome, demonstration by noninvasive rCBF measurement (Stump et al), 105A
- Suppressor cells**  
 characterization of T-cell subsets in peripheral blood and muscle in childhood dermatomyositis (Bresnan et al), 283A  
 chronic progressive multiple sclerosis has low suppressor cell levels (Paty et al), 97A  
 differences between antibody-induced modulation of suppressor cells and suppressor cell changes in multiple sclerosis (Antel et al), 92A  
 immunological studies in senile dementia of Alzheimer type, evidence for enhanced suppressor cell activity (Miller et al), 506  
 induced decrease in percentage of T<sub>H</sub> cells and suppressor activity in peripheral blood of patients with multiple sclerosis (Trotter et al), 97A
- Sural nerve**  
 peripheral nerve unmyelinated axons following lumbar sympathectomy (Chad et al), 486
- Swallowing. See Deglutition**
- Sympathectomy**  
 peripheral nerve unmyelinated axons following lumbar sympathectomy (Chad et al), 486
- Sympathetic nervous system**  
 chronic influence of sympathetic nerves offers protective effect to cerebral vessels of spontaneously hypertensive rat (Mueller and Ertel), 104A
- Thalamus**  
 paramedian thalamic and midbrain infarcts, clinical and neuropathological study (Castaigne et al), 127
- Thalamus, metabolism**  
 regional cortical origin of glutamergic and aspartergic projections to striatum, thalamus, and amygdala of rat (Walker and Fonnum), 78A
- Thallium poisoning**  
 acute thallium poisoning, toxicological and morphological studies of nervous system (Davis et al), 38
- Thermography**  
 congenital hemihypertrophy, oncogenic potential of hypertrophic side (Furukawa and Shinohara), 199  
 local panhypertrophy (Furukawa), NOTE, 274
- Thromboembolism**  
 left ventricular thrombi seen by ventriculography are significant risk factor for stroke in open-heart surgery (Breuer et al), 103A
- Thrombopenia**  
 central nervous system lesions in neonatal isoimmune thrombocytopenia (Naidu et al), 298A
- Thrombophlebitis**  
 incidence of systemic venous thrombosis and risk of anticoagulation in patients with malignant gliomas (Ruff and Posner), 92A
- Thyrotropin, secretion**  
 role of central adrenergic system in episodic secretion of thyroid stimulating hormone (Terry), 81A
- Tomography, emission computed**  
 development of tomographic myelin scan (Frey et al), 214  
<sup>18</sup>FDG positron emission computed tomography in study of aphasia (Metter et al), 173  
<sup>18</sup>F-fluoromethane positron emission tomography to study regional blood flow in cerebral infarction (Celesia et al), 103A  
 in vivo model for imaging brain dopamine systems in humans (Wooten and Horne), 92A  
 nuclear medicine in clinical neurology (Oldendorf), NEUROLOGICAL PROGRESS, 207  
 positron emission computed tomography in diagnosis of dementia (Benson et al), 76A  
 positron emission computed tomography in refractory complex partial seizures (Newmark et al), 73A
- Tomography, positron emission. See Tomography, emission computed**
- Tomography, x-ray computed**  
 abnormalities of CT scans and altered methotrexate clearance in children with central nervous system leukemia (Duffner et al), 286A

- Tomography, x-ray computed (*continued*)  
 computed tomography in diagnosis of Canavan's disease (Rushton et al), 57  
 computerized tomography in subacute necrotizing encephalomyelopathy (Leigh disease) (Schwartz et al), 268  
 measurement of regional cerebral blood flow in human subjects using stable xenon and computerized tomography (Rottenberg et al), 102A  
 translumbar metrizamide polytomographic encephalography in evaluation of posterior fossa in children and adolescents (Bodensteiner and Barnes), 295A
- Torticollis  
 effect of L-glutamine and isoniazid on torticollis and segmental dystonia (Korein et al), 247  
 human leukocyte antigen in torticollis and other idiopathic dystonic syndromes (Korein et al), 573  
 iris pigmentation (melanin) in idiopathic dystonic syndromes including torticollis (Korein), 53
- Transient ischemic attacks. *See* Cerebral ischemia, transient
- Tremor  
 prevalence of essential tremor in biracial adult population of Copiah County, Mississippi (Haerer et al), 93A  
 resetting of tremor by mechanical perturbations, comparison of essential tremor and parkinsonian tremor (Lee and Stein), 523
- Tremor, chemically induced  
 analysis of drug-induced tremor utilizing  $^{14}\text{C}$ -2-deoxyglucose in awake rat (Bell et al), 103A
- Triglycerides  
 treatment of Sjögren-Larssen syndrome with medium-chain triglycerides (Chaves-Carballo et al), 294A
- Turcot syndrome  
 family affected with intestinal polyposis and gliomas (Todd et al), 390
- Ultrasonics  
 real-time ultrasonographic diagnosis of cerebral death (Frank and Early), 304A
- Unmyelinated fibers  
 peripheral nerve unmyelinated axons following lumbar sympathectomy (Chad et al), 486
- Urinary incontinence  
 urinary retention as sole symptom of intracranial calcified mass at Rolandic fissure (Kuroiwa et al), NOTE, 61
- Valproate. *See* Valproic acid
- Valproic acid  
 effect of acetylsalicylic acid on free valproate levels in children (Farrell et al), 299A  
 effects of dipropylacetate on brain development (Diaz and Shields), 465  
 hyperammonemia associated with valproic acid therapy (Coulter and Allen), 307A  
 suppression of fatty acid oxidation by valproic acid (Shumate et al), 88A
- Valproic acid, adverse effects  
 valproic acid, review of 23 fatal cases (Rothner), 287A
- Valsalva maneuver  
 Valsalva ratio, noninvasive and quantifiable test of vagal function (Khurana), 80A
- Vascular headache  
 headache (Lance), *NEUROLOGICAL PROGRESS*, 1
- Vasculitis  
 cryoglobulinemia with encephalopathy, successful treatment by plasma exchange (Reik and Korn), 488
- Vasoconstriction  
 contribution of sympathetic autonomic and vascular abnormalities to blood pressure regulation in experimental diabetes mellitus (Mueller et al), 76A
- Vestibular apparatus  
 slowly alternating skew deviation, description of pretestal syndrome in three patients (Corbett et al), 540  
 vestibular dysfunction in Parkinson disease (McDowell et al), 94A
- Vision tests  
 confrontation visual field techniques in detection of anterior visual pathway lesions (Trobe et al), 28
- Visual cortex  
 plasticity of visual system of newborn monkey involves changes in protein synthesis (Kennedy et al), 287A
- Visual fields  
 confrontation visual field techniques in detection of anterior visual pathway lesions (Trobe et al), 28  
 pattern-reversal visual evoked potentials to partial field stimulation (Haimovic and Pedley), 106A
- Visual perception  
 effect of stimulus orientation on visual evoked potential in multiple sclerosis (Camisa et al), 532  
 transient bilateral visual reduction and mydriasis after propranolol treatment (Parrish and Todorov), *LETTER*, 583
- Vitamin B deficiency  
 treatment of myopathic carnitine deficiency, quantitation of response to prednisone and carnitine (Griggs et al), 89A
- Vitamin B deficiency, familial and genetic  
 familial systemic carnitine deficiency affecting two sisters, one symptomatic and the other asymptomatic (Cruse et al), 302A
- Vitamin E deficiency  
 vitamin E deficiency in Werdnig-Hoffmann disease (Shapira et al), 266
- Wallerian degeneration  
 biophysical and pathological effects of cryogenic nerve lesion (Myers et al), 478
- Werdnig-Hoffmann disease  
 chronic spinal muscular atrophy, static, or progressive disease? (Russman et al), 296A  
 vitamin E deficiency in Werdnig-Hoffmann disease (Shapira et al), 266
- Wernicke encephalopathy  
 neurological manifestations of accidental hypothermia (Fischbeck and Simon), 384
- Whipple disease  
 cerebral involvement in Whipple disease (Mathews and Park), 85A
- Xenon  
 measurement of regional cerebral blood flow in human subjects using stable xenon and computerized tomography (Rottenberg et al), 102A
- Zinc  
 zinc in multiple sclerosis (Dore-Duffy et al), 97A



